

AMERICAN JOURNAL OF OPHTHALMOLOGY

THIRD SERIES FOUNDED BY EDWARD JACKSON

VOLUME 49
JANUARY-JUNE, 1960

EDITORIAL STAFF

DERRICK VAIL, *Editor-in-Chief*

FRANCIS HEED ADLER, *Consulting Editor*

ALAN C. WOODS, *Consulting Editor*

BERNARD BECKER

JAMES E. LEBENSOHN

WILLIAM L. BENEDICT

DONALD J. LYLE

FREDERICK C. CORDES

WILLIAM A. MANN

SIR STEWART DUKE-ELDER

P. ROBB McDONALD

EDWIN B. DUNPHY

A. EDWARD MAUMENE

F. HERBERT HAESSLER

FRANK W. NEWELL

PARKER HEATH

JOHN V. V. NICHOLLS

S. RODMAN IRVINE

ALGERNON B. REESE

BERTHA A. KLIEN

PHILLIPS THYGESEN

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*

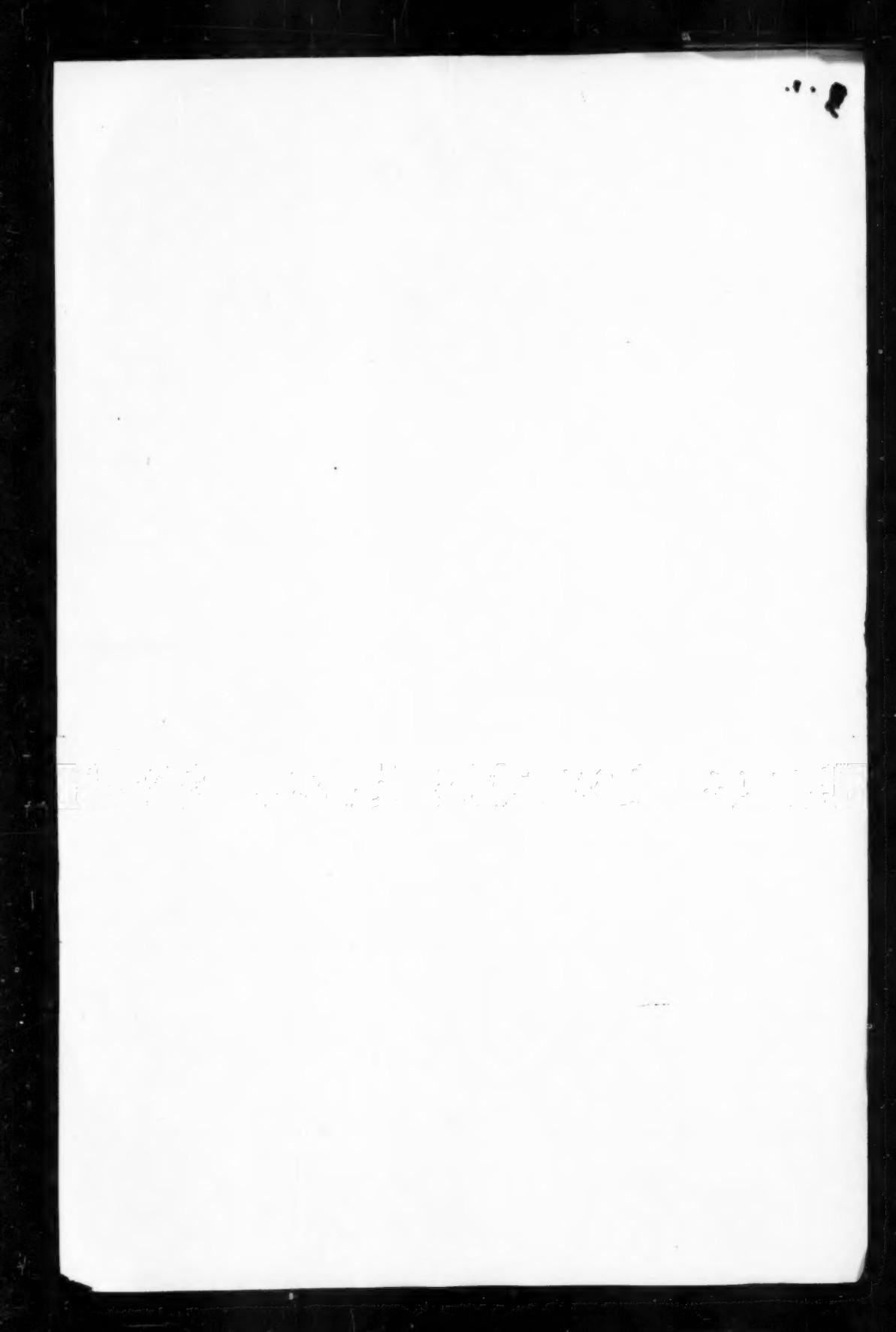
MILDRED SKINNER, *Advertising and Business Manager*

COLLABORATORS

JOSEPH E. ALFANO, *Chicago*; EUGENE M. BLAKE, *New Haven*; FREDERICK C. BLODI, *Iowa City*; SYLVAN BRANDON, *Houston*; JAMES W. BRENNAN, *Buffalo*; WILLIAM C. CACCAMISE, *Rochester, New York*; ALSTON CALLAHAN, *Birmingham*; BEULAH CUSHMAN, *Chicago*; RAY K. DAILY, *Houston*; ALICE R. DEUTSCH, *Memphis*; JOSE A. FERREIRA, *Camden, New Jersey*; OLGA FERRER, *Havana, Cuba*; LAWRENCE L. GARNER, *Milwaukee*; IRVIN E. GAYNON, *Milwaukee*; VICTOR GOODSIDE, *Bronx, New York*; BERTHA T. HAESSLER, *Milwaukee*; WILLIAM G. HAGLER, *Atlanta, Georgia*; HARRY HORWICH, *New York*; MORRIS KAPLAN, *Denver*; PETER C. KRONFELD, *Chicago*; RONALD LOWE, *Melbourne, Australia*; GYULA LUGOSY, *Budapest, Hungary*; WALTER MAYER, *Richmond, Virginia*; PAUL W. MILES, *Saint Louis*; YUKIHIKO MITSUI, *Kumamoto, Japan*; EDWARD U. MURPHY, *Evansville, Indiana*; GUNTHER K. VON NOORDEN, *Iowa City*; G. SCIOVILLE-SAMPER, *Wheeling, West Virginia*; DAVID SHOCH, *Chicago*; JOHN J. STERN, *Utica, New York*; EDWARD JOHN SWETS, *Denver*; V. TABONE, *Juliano, Malta*; PHILLIPS THYGESEN, *San Jose, California*; GEORGE S. TYNER, *Denver*; A. URRETS-ZAVALIA, JR., *Cordoba, Argentina*.

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY

664 North Michigan Avenue, Chicago 11, Illinois



SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

A

ABSTRACTS: 171, 390, 652, 858, 1072, 1441

1. Anatomy, embryology and comparative ophthalmology, 390 652, 858, 1441
2. General pathology, bacteriology, immunology, 171, 392, 652, 858, 1441
3. Vegetative physiology, biochemistry, pharmacology, toxicology, 171, 392, 653, 859, 1442
4. Physiologic optics, refraction, color vision, 174, 394, 656, 862, 1442
5. Diagnosis and therapy, 175, 394, 657, 863, 1443
6. Ocular motility, 178, 396, 659, 865, 1072, 1445
7. Conjunctiva, cornea, sclera, 180, 397, 660, 866, 1073, 1446
8. Uvea, sympathetic disease, aqueous, 181, 398, 660, 868, 1073, 1449
9. Glaucoma and ocular tension, 182, 399, 662, 869, 1074, 1450
10. Crystalline lens, 186, 401, 662, 871, 1075, 1452
11. Retina and vitreous, 188, 403, 664, 872, 1076, 1453
12. Optic nerve and chiasm, 189, 403, 666, 873, 1077
13. Neuro-ophthalmology, 192, 404, 666, 873, 1077, 1456
14. Eyeball, orbit, sinuses, 193, 404, 668, 874, 1456
15. Eyelids, lacrimal apparatus, 194, 405, 668, 874, 1457
16. Tumors, 196, 405, 671, 1079, 1460
17. Injuries, 197, 406, 671, 1079, 1460
18. Systemic disease and parasites, 199, 672, 1079, 1461
19. Congenital deformities, heredity, 200, 406, 1079, 1462
20. Hygiene, sociology, education and history, 200, 407, 672, 1081, 1463

AC/A, effect luminance quantity on, **1140/54**

ratio, lateral heterophoria and, **1427**

Accommodation, excessive, **862**

in people of India, **998**

near-point, modification Prince rule to measure, **827**

vergence and, **1140/54**

Acetazolamide, ocular tension drop after, 183

pharmacology of, in rabbits, 1442

See also Diamox and Carbonic anhydrase inhibitors

Acrylic, anterior chamber implants of, **417**

Actinomycetes, infection of lacrimal canaliculus, **1278**

Adenoma, bronchial, metastatic to orbit, **833**

Adenovirus: See Viruses

Adie, pupil, due to lesions of ciliary ganglion, 873

syndrome, pathogenesis of, 404

Aging, eye in, **663, 859**

retinal pigment changes in, **1047**

Albinism of eye, **1080, 1462**

Alcohol, effect on dark adaptation, **174**

Alkaptonuria, onchronosis oculi in, **440, 867**

ALLERGY: auto-immunity and, **36**

experimental iso-, eye and, **36**

keratoconjunctivitis due to photo-, **1324**

of tuberculosis, effect cortisone on, **392**

sympathetic ophthalmia as phenomenon of, 660

toxoplasmic uveitis and, **1423**

Aloe, extract to treat high myopia, **656**

ALPHA CHYMOTRYPSIN: action on cornea, 861

cataract extraction with and without, **1076**

effect on suture materials, **64**

erisophake and, in cataract extraction, 663, 1453

histology of zonulolysis with, **67**

hyaloid rupture and, **357**

in cataract surgery, 662, 1075

laboratory aspects of, **1117/31**

See also under Zonulolysis

AMBYLOPIA: anisometropia, strabismus and, **865**

astigmatism with, due to orbital lipoma, **1460**

eccentric fixation in, **1315**

ex anopsia, magnifying lenses to treat, **175**

orthoptic surgery for, **631**

flicker thresholds in, **1048, 1194/108**

functional, **1443**

strabismic, sensory and motor symptoms of, **179**

treatment of, **862**

without strabismus, **656**

Ambulation, effect early on complications cataract surgery, **293**

Amniotic membrane, to treat corneal ulcers, **867**

Amphotericin B, in chorioretinitis due to Histoplasma, **1288**

Amyloidosis, bone in tarsal plate and, after trachoma, **814**

of conjunctiva, **1447**

and tarsus, **1413**

Anatomy, in lens pathology, **401**

Anectine: See Succinylcholine

Anemia, hypoparathyroidism and pernicious, **1076**

ANESTHESIA: **846**

general, effect succinylcholine during, **1444**

in children, **839**

local, evaluation of, **1044**

historical review of, **1463**

Aneurysms, intracranial, **178**

infraorbital arteriovenous, **1456**

micro-, **189**

neuro-ophthalmic symptoms of, **404**

Angiofibrosarcoma, of orbit, **1456**

Angiography, in diagnosis orbital lesions, **176**

Angioid streaks, sickle-cell disease and, **450**

Angioma, of orbit, venous cavernous, **405**

Angiomatosis retinae, **1430**

Animals, use of domestic in experimental ophthalmology, **1202/116**

Anisometropia, strabismus, amblyopia and, **865**

Ankyloblepharon filiforme, **1458**

Anomalies: See Congenital anomalies

Anorexia nervosa, subcapsular cataract and, **187**

ANTERIOR CHAMBER: angle of, anatomy of, **391**

in retinal vein occlusion and glaucoma, **1455**

photography of, **177**

shortening of, in angle-closure glaucoma, **141**

delayed reformation of, in cataract extraction, **402**

foreign body extraction from, **197**

hemorrhage, after cataract extraction, **186**

implants: See Intraocular lenses

in megalocornea, **908**

pigmentation of, glaucoma and **1450**

shallow, Graefe knife incision in, **1453**

shortening, in angle-closure glaucoma, **1049**

Anterior segment, effect parasympathetic stimulation on, **653**

inflammations of, hydrocortisone, neomycin and gramicidin to treat, **176**

photography of, **177**

Anthrax, of eyelids, **838, 1458**

Antibiotics, antibody content cornea after, **392**

topical in ophthalmology, **177**

See also under the names of various agents and products

Antibodies, of cornea, after antibiotics, **392**

after chloramphenicol, **653**

Anticoagulants, therapy with, in retinal vein obstruction, **368**

Antigen, corneal heterografts and, **511**

corneal proteins and, **504**

mechanism toxic bacterial, **652**

APHAKIA: anterior chamber implants in unilateral, **417, 703**

bronchogenic carcinoma metastatic to eye with, **96**

congenital, **945**

iris-clip lens in, **1452**

retinal sensitivity in, **191**

Applanation tonometry: See under Tonometry

Aqueduct of Sylvius, stenosis of, visual fields in, **261**

AQUEOUS: dynamics, effect hyperthermia on, **1126/40, 1134/48**

electric conductivity of, **393**

fibrosing response to, glaucoma and, **1074**

formation of, influence ocular tension on, **1451**

origin of, **780**

osmotic pressure of, in congenital glaucoma (rabbit), **399**

osmotic relationship plasma and, **1425**

outflow, effect hypothermia on, **1126/40**

in closed-angle glaucoma, **1451**

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

AQUEOUS (*continued*)

- outflow, *continued*
 - influence ocular tension on, 1451
 - oxygen content of human, 172
 - permeation of, by proteins and lipoproteins, 655
 - plasma and, osmotic relationship of, 1425
 - pseudocrystallization of, 173
- Argyll Robertson pupil, 1078
 - due to lesions ciliary ganglion, 873
- Aristocort®: See Triamcinolone
- Arthritis, iridocyclitis and, 1424
- Arthur reaction, effect irradiation and nitrogen mustard on, 1424
- Asepsis, in ophthalmology, 657, 658
- Association for Research in Ophthalmology, Inc.: auditor's report, 1230/144
geographical list, 1247/161
membership list, 1234/148
officers, 1229/143
- Astigmatism, amblyopia and, due to orbital lipoma, 1460
Donders and, 1533
- in myopic migraine, 1445
- Ataxia hereditary, Leber's optic atrophy and, 667
- spinocerebellar, macular dystrophy and, 192
- tetaniceps and, eye symptoms in, 1462
- Atherosclerosis, eye symptoms in, 658
- Aviation, ophthalmic problems in, 1443

B

- Bab Khemis, hospital center at, 673
- BC 48: See Demecarium bromide
- BCG vaccine, eye diseases after, 1441
- Beta radiation: See Radiation, beta
- Bird feather, blocking lacrimal ducts, 671
- Bjerrum screen, to measure eccentric fixation, 862
- Blastomes, of retina, 1079
- Blepharitis, Selsunef ointment in squamous, 820
- Blepharophimosis, operation for, 1387
- Blepharoptosis, acquired, 337
 - congenital, 337
 - surgical correction of, 337, 845
- Blinded, occupations open to, 1081
- Blindness, congenital, study of, 1463
League Against, 1021
 - with normal fundus, 200
- Blinking, eye movements during, 179
- Blood changes, in moncytosis, 658
 - in sympathetic ophthalmia, 658
- Blood circulation, disturbance in, after pancreatic hormone, 658
 - of eye, instrument to measure, 175
- of retina, 173
- Blood evacuation, in expulsive hemorrhage, 402
- Blood pressure, glaucoma simplex and brachial, 185
- Blood vessels, carotid: See Carotid
changes in, visual failure and, 199
of hyaloid, 390
of iris, tissue spaces of, 391
of retina, 390
- ophthalmic artery, hypertension of, ocular tension and, 393
- Bone, embryonic tissue of, in malformed eye, 1462
- BOOK REVIEWS:**
 - Adler, Francis Heed: Physiology of the Eye: Clinical Application, 648
 - American Ophthalmological Society, Transactions of, 1069
 - Anderson, J. Ringland: Ocular Vertical Deviations and the Treatment of Nystagmus, 1064
 - Apell, Richard J., and Lowry, Ray W.: Pre-School Vision, 857
 - Arkin, Wiktor: Keratoplasty, 169
 - Bahr, von, et al. (editors): Documenta Ophthalmologica, 1065
 - British Council: Current Virus Research (British Medical Bulletin, Volume 15, No. 3), 168
 - Cross, Louise Montgomery: The Preparation of Medical Literature, 856

BOOK REVIEWS (*continued*)

- Field, John, et al. (editors): Handbook of Physiology: Section I: Neurophysiology, Volume 1, 169
- Guillaumat, L., Morax, P. V., and Offret, G.: Neuro-Ophthalmologie, 167
- Hartmann, Edward and Gilles, Evelyn: Roentgenologic Diagnosis in Ophthalmology, 855
- Hathaway, Winifred: Education and Health of the Partially Seeing Child, 651
- Havener, William H.: Synopsis of Ophthalmology, 650
- Hughes, William F. (editor): Year-Book of Ophthalmology, 1070
- John, Henry J.: Jan Evangelista Purkyně, 1070
- Kunkler, Peter B., and Raines, Anthony, J. H.: Treatment of Cancer in Clinical Practice, 1068
- Lebas, Pierre: Les Syndromes Oculo-Cutanés, 1440
- Lee, J. Alfred: A Synopsis of Anesthesia, 168
- Lewison, Lawrence: You and Your Eyes, 1439
- Moore, Thomas: Vitamin A, 650
- Müller-Limmroth, Wof: Elektrophysiologie des Gesichtssinns, 388
- Nano, Hector M.: Fundus Oculi, 388
- Pameijer, Jan Karel: An Investigation of Optical Corrections for Enabling Patients with Low Visual Acuity to Read, 648
- Potts, Willis J.: The Surgeon and the Child, 168
- Rodger, F. C.: Blindness in West Africa, 856
- Rosen, Emanuel: Atopic Cataract, 1068
- St. Henry's Institute: Visual Handicaps (A symposium by 32 contributors), 167
- Schappert-Kimmijsen, J.: The Cause of Blindness in the Netherlands, 389
- Smith, Richmond J. H.: Wolff's Diseases of the Eye, 1439
- Smith, Wilmer Cauthorn: Principles of Disability Evaluation, 389
- Stackelberg, Mark von: Investigations Concerning the Metabolism of the Crystalline Lens, 855
- Turner, Hunter Heiner: The Etiology and Control of Progressive Myopia, 651
- Velhagen, Karl, et al.: Der Augenarzt: Volume II, 1066
- Waife, S. O., and Shapiro, Alvin P.: Clinical Evaluation of New Drugs, 649
- Wolstenholme, G. E. W., and O'Connor, M.: Carcinogenesis: Mechanisms of Action, 167
- Wood, Maxine: Vocational Rehabilitation Counseling of Blind Persons: A Career with a Challenge, 857
- Brill-Symmers syndrome, 874
- Burns: See under Injuries
- C**
- California, epidemic Koch-Weeks conjunctivitis and trachoma, in Coachella Valley of, 801
- Campimetry, in chronic simple glaucoma, 182
- Canal of Schlemm, drainage openings in trabecular wall of, 1044
 - emissary of, 1044
 - structural details of, 1045
- Canalico-dacryocystostomy, 1459
- Carbonic anhydrase, 384
 - inhibitors, effect on ocular tension, 1442
 - effect on urinary excretion of citrate, 929
 - See also under Acetazolamide, Diamox and names of various other agents
- CARCINOMA:** bronchogenic, metastatic to aphakic eye, 96
 - exophthalmos due to metastatic, 1034
 - intraocular metastatic, 405
 - metastatic, yttrium-90 in, ocular complications of, 476
 - of maxillary sinus, eye involvement in, 1337
 - ophthalmoplegia and breast, 723
- Cardrane, in glaucoma, 400
- Carotid, arteriography, acute glaucoma after, 1451
- occlusion, bulbar conjunctival vessels in, 660
- CATARACT:** calcareous, chorioretinal atrophy and, 1463
- dinitrophenol-induced, in avian embryo, 1168/82
- ectodermal dysplasia and, 1462
- experimental, antimyiotic agents in, 187

SUBJECT INDEX

v

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- CATARACT (continued)**
- EXTRACTION:** alpha chymotrypsin in, 662, 663
 crisophake and, 663, 1453
 anterior chamber hemorrhage after, 186
 choroidal detachment after, 1408
 delayed anterior chamber reformation in, 402
 enzymatic zonulolysis in, 531, 1453
 expulsive subchoroidal hemorrhage in, survival eye
 after, 791
 hyaloid rupture in, alpha chymotrypsin and, 357
 in centenarian, 663
 intracapsular, forceps for, 871
 study of alpha chymotrypsin in, 662
 unusual, 851
 with and without alpha chymotrypsin, 1076
 formation of, experimental, 1165/79
 glaucoma and, treatment of, 663
 glucosamine in senile, 186
 history of, 305
 hypocalcemia and, 199
 incision, buried mattress suture for, 871
 Myleran (rat), lens fluorescence in, 402
 operations, history of, 305
 peripheral uveitis and, 1257
 preoperative treatment in, 1076
 produced by ergotine, 655
 reading aid for persons with, 1401
 senile, artificial absorption of, 1453
 electron microscope to study, 1423
 geographic distribution of, 1039
 subcapsular, anoxia nervosa and, 187
SURGERY: alpha chymotrypsin in, 662, 663, 1075
 complications of, effect early ambulation on, 293
 iridectomy in, 296
 plain vs. chromized catgut sutures in, 711
 Prazine in preparation for, 403
 slitlamp indications for, 402
 suturing technique for, 186
 traumatic, late opacities in, 187
Cells, sex chromatin as marker for, 513
Cephalosporium, keratitis due to, 267
Cerebral hemisphere, retinal circulation in diseases of,
 657
 Chemical injuries: See under Injuries
 Chiasm, radiation damage to, 176
 Chicago Ophthalmological Society, 631
CHILDREN: blind, development of 10, after retrobulbar
 fibroplasia, 672
 eye diseases in, 362, 364
 eyelid edema in, 1457
 general anesthesia in, 839
 newborn, retinal hemorrhages in, 1005
 treatment strabismus in small, 866
Chloramphenicol, corneal antibodies after, 653
Chloroquine, deposits of cornea, 397
 in experimental uveitis, 860
 retinopathy after therapy with, 664
Chlorothiazide, influence on ocular tension, 1452
Cholinesterase inhibitors, 270
Chorioretinal, atrophy, cataracta calcarea and, 1463
 circulatory insufficiency, retinal changes due to, 861
Chorioretinitis, acute disseminated, treatment of, 190
 amphotericin B in, 1288
 toxoplasmic, 661
CHOROID: atrophy of, central areolar, 398
 coloboma of, retinal detachment and, 628
 degeneration of, 872
 detachment of, after cataract extraction, 1408
 in peripheral uveitis, 1257
 spontaneous, 898
 melanoblastoma of, scotoma as sign of, 1406
 melanoma of, echogram in, 196
 tumor of, prognosis of malignant, 869
Choroiderma, myopia, nystagmus and, 200
Choroiditis, proliferative, 1450
Chymotrypsin, action on hyphema, 1442
 See also Alpha chymotrypsin
Ciliary body, atrophy of, 1449
 glaucoma and, 1449
 in origin of aqueous, 780
Ciliary epithelium, changes in, hypothermia and, 1134/48
Ciliary ganglion, in trachoma, 392
 lesions of, causing Argyll Robertson and Adie pupils, 873
Ciliary muscles, nerve fibers of, 653
Ciliary nerves, anatomy of, 1425
Citrate, effect carbonic anhydrase inhibitors on urinary excretion of, 929
Cogan's syndrome, 1017
Coloboma, congenital, of iris, 661
Color vision, 1047
 atypical congenital, 1442
 congenital defects in, 657
 new theory of, 394
 physiologic, optical findings in, 863
 test, Ishihara, to screen children, 921
Compensation: See Disability compensation
Congenital anomalies, of lens, 186, 401
 of optic disc, 190
CONJUNCTIVA: amyloidosis of, 1413, 1447
 bacterial infections of, 1073
 bulbar, blood vessels of, in carotid occlusion, 660
 cysts of, 1447
 diseases of, fungus infections in, 397
 fluid of, cytology of, 1447
 lymphomatous hyperplasia of, 1415
 mycotic flora of, 1174/88
 pemphigus of, eyelid defects due to, 1458
 plasmaoma of, 867
 plastic surgery of, 1073, 1448
 tuberculosi of, differential diagnosis in, 867
Conjunctival sac, radiation therapy of, 177
Conjunctivitis, Kock-Weeks epidemic, trachoma and, 801
 snake venom, 1446
 vernal, keratoconjunctivitis and, 1073
Conjunctivovantrostomy, in epiphora, 246
Contact glass, in human ERG, 173, 174
Contact lenses, 277
 functional results with, 548
Convergence, mechanism of, 1051
 near-point of, modified Prince rule to measure, 827
Copper-sulfate, in cephalosporium keratitis, 267
CORNEA: 398
 action alpha chymotrypsin on, 861
 antibody content of, after antibiotics, 392
 after chloramphenicol, 653
 arcus of, heart disorders and, 395
 chemical injuries to, phosphate buffer study of, 1331
 chloroquine deposits of, 397
 curvature of, variation in during ophthalmometric examination, 181
 Descemet's membrane in peripheral, 629
 diffusion in, 1011
 diseases of, fungus infections in, 397
 dystrophy of, Groenow, 1051
 macular, family with, 397
 electrical conductivity of, 393
 endothelium of, healing process in, 683
 erosion, familial, therapy of, 181
 fine structure of human, 1421
 foreign body extraction from, 197
 granuloma of, carrageenan (experimental), 628
 herpes simplex infections of, steroids in, 1355
 heterografts of, antigenicity of, 511
 innervation of, regenerative changes in, 1441
 interfibrillar spaces of, 858
 lenses: See Contact lenses
 megalocornea: See Megalocornea
 opacities, steroid treatment of, 906
 proteins of, antigenic properties of, 504
 refractive power of, in hypermetropia, 1446
 surgery of, collagenous sutures in, 396
 suturing of, needle-holder for, 176
 transparency of, endocrine factors of, 1421
 tumor of, conjunctival-scleral keratoplasty in, 180
 ulcers of, after muscle surgery, 1073
 amniotic membrane to treat, 867
 due to cephalosporium, 267
 vascularization, Thiotepa to inhibit, 1111/25
 steroid treatment of, 906
 wounds of, xanthopterin in, 171

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

CORRESPONDENCE:

- Administration of urea for reduction of intracranial and intraocular pressure, **164**
- An unusual cataract extraction, **851**
- Bayard's convex glass, **1061**
- Carbonic anhydrase, **384**
- Cause and cure of entropion, **1059**
- Chemical burns treated with egg membrane, **853**
- Label with name of drug, **851**
- Odd corneal transplantation, **850**
- Ophthalmodynamometry, **647**
- Osmotic pressure measurements, **644**
- Recording for the Blind, Inc., **1063**
- Red glass and green light for cover tests, **1063**
- Retrosternal fibroplasia, **382**
- Suture spreader improved, **854**
- Corticosteroids, in herpetic keratitis, **627**
- in herpes zoster, **1430**
- See also under names of various agents and products
- Cortisone, effect on allergic reaction in tuberculosis, **392**
- C-reactive protein, clinical significance of, **175**
- in inflammations, **654**
- Cuba, League Against Blindness in, **1021**
- Cul-de-sac, lymphomatous hyperplasia of conjunctival, **1415**
- Cyclitis, annular, exudative, **868**
- Cycloanemization, **662**
- Cyclodialysis, **634**
 - cycloanemization and, **662**
 - Cyclodathermy, perforating, **183**
 - Cyclomydril, new mydriatic, **1033**
 - Cyclophoria, correction of, **865**
 - Cycloplegia, influence on miotics, **844**
 - Mydriatim as, **173**
 - Cystadenoma, of lacrimal caruncle, **670**
 - Cysts: bulbar subconjunctival epithelial, **151**
 - of conjunctiva, **1447**
 - of eyelid border, **196**
 - of iris, **661**

D

- Dacryocystitis, sulfonamide gel in lacrimal sac for, **1459**
- Dacryocystorhinostomy, **874, 1457**
 - chisel and hammer in, **395**
 - needle for, **153**
- Dark adaptation, effect alcohol on, **174**
- Deafness, keratitis and, **1017**
 - retinal degeneration and neurogenic, **664**
 - retinitis pigmentosa and, **664**
- Demecarium bromide (BC 48), effect on eye, **270**
 - in glaucoma, **554**
- Dermatitis, atopic, **1080**
 - glaucoma with, **351**
- Dermatomyositis, fundus changes in, **872**
- Descemet's membrane, in peripheral cornea, **629**
- Dexamethasone, in corneal opacities and vascularization, **906**
- DIABETES: eye changes in, **672**
 - extraocular muscle paralysis in, **659**
 - juvenile, **358, 370**
 - retinal blood vessels in, **1044**
 - retinal degeneration and, **664**
- DIABETIC RETINOPATHY: **1052, 1453**
 - experimental, **1426**
 - low fat diet and, **666**
 - proliferans, **664**
 - X-ray therapy in, **1077**
 - rising incidence of, **665**
 - sex difference in, **1454**
 - X-ray therapy in proliferative, **1077**
- Diamox, effect on hyphema absorption, **625**
- Neptazane compared with, **1307**
- See also under Acetazolamide, Carbonic anhydrase inhibitors, Glaucoma
- Diaphanoscopy, transpupillary, in foreign body localization, **658**
- Diathermy, electrode for, **864**
- Diet, low fat in diabetic retinopathy, **666**
- Diktyoma, **606**

- Diplopia, autoregistration of, **180**
 - due to scar tissue, **863**
 - in blow-out fracture of orbit, **1037**
- Disability compensation, one-eyed persons and, **1443**
 - visual loss and, **1445**
- Decission, with aid of fixation needle, **978**
- Diseases, of eye: See Eye diseases
- systemic, retinal manifestations of, **665**
- Divergence, mechanism of, **1051**
- Drugs, autonomic, effect on vision, **1045**
 - particle size of, in ointments, **393**
- Duane's retraction syndrome, **1072**
- Dysautonomia, familial, **372**
- Dysproteinemia, **199**

E

- Eales' disease, X-ray therapy in, **1311**
- East-Central Section, abstracts, **1044**
- Eastern Section, abstracts, **1421**
- ECHOGRAM: from posterior wall of globe, **1445**
 - in retinal detachment, **1444**
 - in vitreous opacities, **1301**
 - of melanoma of choroid, **196**
 - oscilloscope to magnify, **1445**
 - to diagnose foreign bodies, **1444**
 - See also Ultrasound
- Echothiophate, clinical evaluation of, **1162/76**
 - effect on ocular tension, **470**
 - in glaucoma, **808**
- Eclampsia, fundus changes in, **672**
 - puerperal, retinal reaction in, **653**
- Ectodermal dysplasia, **1462**
 - cataract and, **1462**
- Entropion, senile, V-Z procedure for, **1459**
- EDITORIALS:
- Donders and astigmatism, **1053**
- Vth National Congress of the Mexican Ophthalmological Society, **1056**
- First Congress of the European Society of Ophthalmology, **1433**
- Indirect ophthalmoscopy, **380**
- Lens regeneration, **849**
- Limited vision, **157**
- VIth Congress of the Pan-American Association of Ophthalmology, **641**
- Present status of desensitization therapy in ocular tuberculosis, **378**
- Scientific exhibits, **159**
- Wills Eye Hospital, new research laboratory of, **160**
- Wilmer Residents Association, 19th clinical meeting, **1437**
- Edrophonium chloride (Tensilon), effect on ocular tension, **1381**
- Egg membrane, to treat chemical burns, **853**
- Elastic tissue, in sickle-cell disease, **450**
- Electrical conductivity, of aqueous, corneal, vitreous and sclera, **393**
- Electroencephalogram, in retinitis pigmentosa, **762**
- Electrolyte mixtures, effect on cells from human iris, **446**
- Electromyogram, of extraocular muscles, effect paralysis cervical sympathetic on, **679**
- Electromyography, **192**
- strabismus and, **659**
- Electron microscopy, to study changes in ciliary epithelium after hypothermia, **1134/48**
 - to study Descemet's membrane, **629**
 - to study iris, **1045**
 - to study senile cataract, **1423**
 - to study zonulolysis, **67**
- Electrophoresis, of tear proteins, **195**
- Electroretinography, **189**
 - a-wave in human, **392**
 - clinical, indications for, **176**
 - contact glass in human, **173, 174**
 - in macular degeneration, **188**
 - in retinitis pigmentosa, with bitemporal field defects, **403**
 - sector-type **403**
 - to study retinal metabolism, **873**

SUBJECT INDEX

vii

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Elliot trephination, late infections after, 659
 Elschnig's pearls, 871
 Emotion, glaucoma and, 297
 Encephalitis, herpes zoster and, 667
 Encephalocele, of orbit, 405
 Endarteritis obliterans, fundus changes in, 373
 Endophthalmitis, metastatic pneumococcic, 353
 mycotic postoperative, 1456
 Entropion, cause and cure of, 29, **1059**
 due to epiblepharon, 1458
 Enucleation, new technique of, 405
 polystan implants after, 194
 Enzymatic zonulolysis: See Zonulolysis
 Enzyme, rodanese: See Rodanese
 Epiblepharon, entropion due to, 1458
 Epibulbar tumor, 406
 Epiphora, conjunctivoantrostomy in, 246
 hypothyroidism and, 1459
 symptomatic, 194
 Episcleritis, pachondritis and, 1446
 Epithelioma, palpebral, 1457
 Ergotine, action on eye, 655
 Erisophake, alpha chymotrypsin and, in cataract extraction, 663, 1453
 Esidrex, effect on ocular tension, 1321
 Esotropia, miotics in, comparison of, 1350
 Espino, Jose Manuel, 1058
 Europe, ophthalmic tour of, 673
 Euthyscope, experiences with, 864
 Evisceration, modified Burch with scleral implant, 41
 new technique of, 405
 orbital, improvement in, 175
 EYE, aging and: See Aging
 albinos, study of, 1462
 diseases of, after BCG vaccine, 1441
 extravascular pathways of, 135
 fluorescein appearance in, after intravenous injection, 171
 haptics, Wills, new research laboratory of, 160
 lesions, due to shots with gas pistols, 197
 in periorbititis nodosa, 199
 lime burns of, 198
 movements: See Movements of eye
 survival of, after explosive subchoroidal hemorrhage, 791
 vibration, high frequency, 172
 Eyeball, surgical rotation of, in retinal detachment, 1455
EYELIDS: anatomy of lower, entropion and, 29
 anthrax of, **838**, 1458
 cyst border of, 196
 deformities, due to conjunctival pemphigus, 1458
 diseases of, fungus infections in, 397
 edema of, in children, 1457
 epitheliomas of, 1457
 margins of, parasitic infection of, 1080
 plastic surgery of, 194, 874, 1459
 malignant lesions and, 195
 scars of, due to parasites, 1458
 surgery of, 670
 tricho-epithelium of, 1460
 Exenteration, orbital healing after, 193
 Exophthalmos, diagnosis and control of, 193
 unilateral, differential diagnosis of, 874
 due to metastatic carcinoma, 1034
 Extracts, autonomiclike effects of ocular, 1208/122
 ocular, parasympathomimetic properties of, 1044
- F**
- Facial asymmetry, strabismus and, 397
 Fat, low diet of, in diabetic retinopathy, 666
FIXATION: anomalies of, strabismus and, 178
 Bjerrum screen to measure eccentric, 862
 during ophthalmoscopy, 658
 during skiascopy, 658
 eccentric, age of onset of strabismus and, 178
 Bjerrum screen to measure, 862
 in amblyopia, **1315**
 eye movements during, 179
 muscle sensibility and, 656
- Flicker, perimetry, 864
 thresholds, centrally fixed in amblyopia, **1194/108**
 Fludrocortisone, **619**
 Fluids, biologic, pseudocrystallization of, 173
 of conjunctiva, cytology of, 1447
 Fluorescein, appearance in eye after intravenous injection, 171
 diffusion of, in cornea, 1011
 in applanation tonometry, **1149/63**
 permeability, nervous system and, 654
FOREIGN BODIES: echogram to diagnose, 1444
 endobulbar, X-ray diagnosis of, 197
 extraction, from anterior chamber, 197
 from cornea, 197
 intracocular **1431**
 intraorbital, 194
 localization, by transpupillary diaphanoscopy, 658
 of orbital, 1460
 ultrasound in, **249**
 steel, 1079
 ultrasound to diagnose, 1461
Fractures: See Injuries
 Fructose, in lens metabolism, 1045
FUNDUS: blindness with normal, 200
 changes, in dermatomyositis, 872
 in detached choroid, **898**
 in eclampsia, 672
 in endarteritis, **373**
 in hypertension, 1076
 in sickle-cell disease, 450
 photography, 395
 pigmentation of, in retinal degeneration, 872
 reflex, impaired or absent, 1445
 spots in, 474
FUNGUS: canaliculitis due to, **1278**
 chorioretinitis due to Histoplasma capsulatum, amphotericin B in, **1288**
 infections, in eyelid, conjunctival and corneal diseases, 397
 postoperative endophthalmitis due to, 1456
 keratitis, 398
 due to cephalosporium, **267**
 mycotic flora of conjunctiva, **1174/88**
- G**
- Galvanometer, tonography and recording, **80**
 Gambia, trachoma in, 171
 Ganglioplegics, in glaucoma, 185
 Gargoylism, glaucoma and, 182
 Gas, pistols, eye lesions due to shots from, 197
 Geniculate nucleus, binocular interaction in lateral, 666
 Gerontology, longitudinal, 394
 Ghana, onchocerciasis in, 1461
GLAUCOMA: 183, 1075
 acute, after carotid arteriography, 1451
 requiring lens extraction, 662
 angle-closure, anterior chamber shortening in, **1049**
 peripheral iridectomy in, 182
 shortening angle anterior chamber in, 141
 atopic dermatitis and, **351**
 Cardrane in, 400
 cataract and, treatment of, 663
 clinic, at University of Utrecht, 1463
 closed-angle, aqueous outflow in, 1451
 darkroom test in, 1074
 collagen loss in, **411**
 congenital, aqueous osmotic pressure in (rabbit), 399
 megalocornea and, **908**
 cyclodiathe my in, 183
 demecarium bromide in, **554**
 echothiophate in, **808, 1162/76**
 elastometric curves in, 662
 emotional, **297**
 essential atrophy iris and ciliary body and, 1449
 fibrosis response to aqueous and, 1074
 filtering cicatrices in, size change of, **795**
 frequency of, 183
 Fuchs' heterochromic cyclitis and, 1449
 ganglioplegics in, 185

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- GLAUCOMA** (*continued*)
 gargoyle and, 182
 hemorrhagic, 1428
 hereditary, 869
 in Iceland, 185
 in essential iris atrophy, 147, 1449
 in myopic eyes, 870
 operation of, 981
 iridencleisis in acute, 400
 iris inclusion operation in, 184
 lacunar spaces in, 411
 mast cells in eyes with, 401
 Neptazane in, 399, 1307, 1396, 1450
 new concept problem of, 1032
 operations for, Elliot, late infection after, 659
 fistula-forming, 870
 in myopia, 981
 new filtering, 399
 peripheral uveitis and, 1257
 pigmentary, anterior chamber pigmentation and, 1450
 primary, incidence of, 185
 surgery in, 1452
 Priscol test in, 184
 retinal vein occlusion and, anterior chamber angle in, 1455
 sclera in eyes with, 411
 secondary, in systemic histiocytosis, 987
 simple, brachial blood pressure and, 185
 chronic, campimetry in, 182
 surgery of, 1452
 social significance of, 183
 steroid therapy and, 351
 tests, bulbar suction, 869
 darkroom outflow, 1074
 provocative, 400
 therapy, long-term results in, 221
 trabecular meshwork in, 1089/3
Glaucomatocyclitic crises, 1451
Glioma, 405
 of optic nerve and chiasm, X-ray evidence of, 671
Globe, evulsion of, 197
Glucosamine, in senile cataract, 186
Glycolysis, in rat retina, after iodoacetate poisoning, 860
Goldmann applanation tonometer, clinical application of, 967
Goniophotography, 863
Gramicidin, in anterior segment inflammations, 176
Granuloma, carrageenan of cornea (experimental), 628
 of iris, 829
Graves' disease, orbitometry in, 683
- H**
- Heart**, disorders, arcus of cornea and, 395
Hematoma, papilledema in subdural, 192
 subdural, Raeder's syndrome and, 193
Hemianopsia, homonymous, 1077, 1456
HEMORRHAGE: anterior chamber, after cataract extraction, 186
 expulsive subchoroidal, in cataract extract, survival eye after, 791
 treatment of, 402
 into lens, 1453
 of vitreous, diagnosis of, 1444
 retinal detachment and, 188
 retinal, in newborn, 1005
Heredit, in glaucoma, 869
 in Iceland, 185
 in infantile optic atrophy, 189
 in keratoglobus, 186
 in lens pathology, 401
Herpes simplex, chemical agents and, 1426
 of cornea, steroids in, 1355
 uveitis due to (experimental), 627
Herpes zoster, corticosteroids in, 1430
 encephalitis, meningitis and, 667
 vitamin B₁₂ in, 172
Herpetic keratitis: See under Keratitis
Heterochromic cyclitis of Fuchs, glaucoma and, 1449
Histiocytosis, systemic, with ocular involvement, 987
- Histoplasmosis**, 1079
 amphotericin B in, 1288
 granulomatous uveitis and, 205
Hormones, circulatory disturbance after pancreatic, 658
Horner's syndrome, striated levator in, 679
Hyaloid, blood vessels of, 390
 rupture of, alpha chymotrypsin and, 357
Hyaluronate, vitreous, 1360
Hyaluronidase, effect on ocular tension, 1075
 purification of, 626
Hydrogine, action on iris muscles, 859
Hydroa vacciniforme, 1457
Hydrochlorothiazide: See Esidrex
Hydrocortisone, in anterior segment inflammations, 176
 in optic neuritis, 824
Hypermetropia, refractive power of cornea in, 1446
Hyperplasia, lymphomatous of palpebral conjunctiva, conjunctival cul-de-sac and plica semilunaris, 1415
Hypertension, classification of, clinical significance of, 365
 fundus changes in, 1076
HypHEMA, action chymotrypsin on, 1442
 Diamox and absorption of, 625
 nonperforating eye injuries with, 1298
Hypnosis, 639
Hypocalcemia, with cataract, 199
Hypoparathyroidism, papilledema and, simulating brain tumor, 672
 pernicious anemia and, 1076
Hypophysectomy, yttrium-90, ocular complications of, 476
Hypothalamus, radiation damage to, 176
Hypothermia, ciliary epithelial changes and, 1134/48
 effect on aqueous dynamics, 1126/40, 1134/48
 effect on aqueous outflow, 1126/40
 effect on ocular tension, 1126/40
Hypothyroidism, epiphora as symptom of, 1459
- I
- Iceland**, glaucoma in, heredity and, 185
Illumination, of tangent screen, 395
 quantity AC/A and, 1140/54
 visual acuity in low, 862
Immunology, in lens pathology, 401
IMPLANTS: anterior chamber, See Intraocular lenses
 Palodon, in orbital reconstruction, 1457
 polystan after enucleation, 194
 scleral, modified Burch evisceration and, 41
India, accommodation in people of, 998
Infants, iris cysts in, 661
 pupillary membrane in premature, 657
Infections, after Elliot trephination, 659
 bacteria of conjunctiva and, 1073
 resistance to, 652
Inflammations, c-reactive proteins in, 654
 of anterior segment, hydrocortisone, neomycin and gramicidin to treat, 176
 triamicinolone in, 55, 516
INJURIES: blow-out fracture of orbit, 1037
 chemical, treated with egg membrane, 853
 regeneration after, 406
 to cornea, phosphate buffer (Neutralize) studies of, 1331
 due to blank cartridges, 198
 due to gas pistols, 197
 due to tear gas, 198
 globe luxation due to, 197
 head, motility disturbances after, 396
 lime burns, 198
 irrigation therapy in, 406
 nonperforating, hyphema with, 1298
 penetrating, typhoid vaccine in, 671
 scleral graft in, 198
 Soviet literature on, 198
 unusual, 1400
- INSTRUMENTS**: attachment for Tudor Thomas stand, 864
 care of ophthalmic, 903
 combining retinal photography and ophthalmoscopy, 1403
 corneal forceps, 616
 corneal trephine, with centering device, 1031

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

INSTRUMENTS (continued)

dacryocystorhinostomy needle, 153
electric tonometer, 175
electrode for diathermy, 864
four-way sight screener, 154
for keratoplasty, 845
for photographing anterior segment and chamber angle, 177

forceps, for intracapsular cataract extraction, 871
frame for retinoscopy, 177
mirror for Schepens' ophthalmoscope, 177
modified Prince rule, 827
multipurpose-utility, 1420
needle-holder, for corneal suturing, 176
nonmagnifying reading aid, 1401
ophthalmodynamometer, 1444
optical aid for calibration in tonography, 1030
scalpel and scissors, 871
stereophrometer, in orthoptics, 865
surgical, demagnetizer for, 395
suture spreader, 854
to center corneal grafts, 617
to measure retinal blood vessels, 177
to photograph optical sections, 178
to register diplopia, 180

Intracranial disease, papilledema and, 1456

INTRAOCULAR IMPLANTS: 417

anterior chamber, in unilateral aphakia, 417, 703
pathologic examination of eye with, 1441
Intraocular pressure: See Ocular Tension
Iodine, therapy of eye, basic study of, 655
Iodoacetate, poisoning of rat retina, glycolysis in, 860
Iridectomy, in cataract surgery, 286
in glaucoma with iris atrophy, 147
peripheral, in angle-closure glaucoma, 182
Iridencleisis, 400
in acute glaucoma, 400
modified, 1368
Iridocyclitis, arthritis and, 1424
rheumatic, 1450
X-ray treatment of, 398
IRIS: atrophy of, essential, 147, 713, 1449
glaucoma and, 1449
blood vessels of, tissue spaces of, 391
canalicular network of, microradiography to study, 1267
cells of, effect electrolyte mixtures on, 446
coloboma of, congenital, 661
cyst of, in infant, 661
effect autonomic drugs on, 1045
glaucoma and essential atrophy of, 147, 1449
granuloma of, 829
in megalocornea, 908
inclusion operation, in glaucoma, 184
infiltration, in systemic histiocytosis, 987
muscle, action hydrgine on, 859
new vessel formation in, 661
prolapse, postoperative, 398
sphincter, effect parasympatheticolytic agents on, 392
ultrastructure of, 1045
Iris-clip lens, 703

Ishihara test, in color-vision defectives, 921
Isopto-PNP, in external eye infections, 726

J

Jordan, trachoma in, 171

K

Keratitis, cephalosporium, 267
deafness and, 1017
fungus, 398
herpetic, corticosteroids in, 627
treatment of 866
interstitial, avascular, 867
Kerato-acanthoma, 822
Keratoconjunctivitis, epidemic, clinical and etiologic features of, 867
photoallergic, 1324
sicca, urea secretion into tears in, 859

Keratoconus, histopathology of, 1447
posterior, 1446
vernal conjunctivitis and, 1073
Keratoglobus, genetic etiology of, 180
KERATOPLASTY: 181
attachment for Tudor Thomas stand, 864
corneal trephine with centering device for, 1031
donor cornea, comparison fresh and preserved, 1387
experimental lamellar heterografts, 1387
graft, fixation and covering in, 867
fixation suture for, 867
frozen dehydrated, 181
instrument to center, 617
opacification after, immunochemical study of, 740
preservation of, 729, 843
sex chromatin as marker for, 513
heterografts, antigenicity of, 511
immunochemical analysis of experimental transplants, 740
instrument to center grafts, 617
lamellar, 1448
new instrument for, 843
preservation donor tissue for, 729
preservation of grafts for, 843
problems of, 660
sex chromatin as graft marker in, 513

L

LACRIMAL APPARATUS: 668
congenital atresia of, 668
canalicular, actinomycetes infection of, 1278
atresia of, operation for, 1459
obliteration of, 1432
obstruction of, conjunctivoantrostomy in, 249
stenosis of, 1458
treatment for, 405
traumatic disrupted, reunion of, 874
caruncle, cystadenoma of, 670
drainage, operation to improve, 1457
ducts, bird feather blocking, 671
intubation of, 671
fluid, urea in, in keratoconjunctivitis sicca, 859
gland, epithelial tumor of, 1429
tuberculosis of, 196
tumor of, 670
X-ray diagnosis of, 1428
nasal surgery and, polyethylene tubes in, 670
sac, sulfonamide gel in, to treat dacryocystitis, 1459
tumor of, 671, 1420
Lagophthalmos, surgery of, 1459
Laurence-Moon-Biedl syndrome, 1410
Lawford's syndrome, 182
Lectures, Sanford R. Gifford, 221
LENS: carbohydrate metabolism and aging, 1422
chemistry of, 186
congenital anomalies of, 401
and acquired, 186
exfoliation syndrome of, 664
extraction, acute glaucoma requiring, 662
fluorescence of, after X rays, 172
hemorrhage into, 1453
metabolism, fructose and, 1045
opacities, due to cooling, 401
hypocalcemic, 1453
organ specificity of, 1421
oxygen absorption of, 654
pathology of, symposium on, 186, 401
physics of, 186
physiology of, 186
proteases in, 1421
regeneration, 849
rodanese activity in, 171
tritium of, autoradiographic localization of, 1422
Light, reaction of pupil, 172
scatter, in frozen retina, 1046
Light coagulation, 87
clinical experiences with, 1046, 1212/126
of iris (experimental), 629
of retina, 665

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Lipoproteins, permeation aqueous by, 655
- Limbus, tumor of, conjunctival-scleral keratoplasty in, 180
- Lime burns: See Injuries
- Logic, application to ophthalmology and medicine, 407
- Louis-Bar syndrome, 1462

M

- Macroglobulinemia, 1461
- Macrophages, of human vitreous, 1185/99
- Macula, degeneration, disciform, 848
electroretinogram in, 188
peripheral uveitis and, 1257
dystrophy, spinocerebellar ataxia and, 192
- Macular-corneal dystrophy, family with, 397
- Madrid Ophthalmological Society, 1051, 1431
- Mandibulofacial dysplasias, 406
- Medicine, logic applied to, 407
ophthalmic problems in, 361
- Medullo-epithelioma, embryonal, 606
- Megalocornea, anterior chamber in, 908
congenital glaucoma and, 908
iris in, 908
- Melanoblastoma, of choroid, scotoma as sign of, 1406
- Melanoma, 405
malignant of uvea, 594, 612
of choroid, echogram of, 196
- Melanosis, precancerous, 197
- Meninges, in uveitis, 1073
- Meningitis, herpes zoster and, 667
- Methazolamide: See Neptazine
- Mexican Ophthalmological Society, Vth Congress, 1056
- Microaneurysms, 189
- Microphotography, with slitlamp, 864
- Microradiography, unknown canalicular network of iris revealed by, 1267
- Microscopy, electron: See Electron microscopy to study zonulolysis, 67
- Migraine, refraction in myopic astigmatism and, 1445
scotoma of, studied in 618 persons, 489
- Miotics, comparison of, in esotropia, 1350
influence cycloplegia on, 844
influence mydriasis on, 844
- Molluscum sebaceum, 822
- Monocytosis, blood changes in, 658
- Mortality, in ophthalmology, 1081
- MOVEMENTS of the eye, brainstem evoked, 623
disturbances of, after head injury, 396
during blinking, 179
during fixation, 179
voluntary, localization during, 863
- Multiple sclerosis, eye symptoms in, 657
optic tract neuritis in, 1077
retinal vein sheathing in, 1454
- MUSCLES: anomalies of, torticollis and, 180
dystrophy, ophthalmoplegia and, 396
extraocular, cholinesterase in, 1426
electromyogram of, 679
paralysis of, in diabetes, 659
refraction changes after operation on, 659
innervation of, normal, 652
of paralyzed, 652
- metastases in extrinsic, 723
- oculorotary, contraction of, ocular tension and, 1381
- paralysis of, after antitetanus serum, 179
of cervical sympathetic, EMG and, 679
of extraocular, in diabetes, 659
superior oblique transplantation in, 179
- rectus, paralysis external after antitetanus serum, 179
vertical displacement of horizontal, 178
- responses and distribution of human intraocular, 1178/92
- sensibility, fixation and, 656
- striated levator, in Horner's syndrome, 679
- superior oblique, hypofunction of, in ocular torticollis, 865
- surgery, corneal ulcer after, 1073
- Mycotic flora of conjunctiva, 1174/88

- Mydriasis, influence on miotics, 844
- Mydriatics, Cyclomydril, a new, 1033
- Mydriatum as, 173
ROI-7683/15, new and effective, 958
- Mydriatum, cycloplegic and mydriatic effects of, 173
- MYOPIA: choroiderma, nystagmus and, 200
extract of aloes to treat high, 656
glaucoma and, 870
operation in, 981
gravis, frequency of, 1418
- migraine, astigmatism and, refraction in, 1445
- surgical support posterior sclera in, 1341
- transient traumatic, 1460
- Myxoma, endocardial, retinal artery embolism due to, 192

N

- Narcolepsy, ocular manifestations of, 953
- Nasolacrimal surgery, polythene tubes in, 670
- Neomycin, in anterior segment inflammation, 176
- Neptazine, clinical effects of, 1396
- Diamox compared with, 1307
in glaucoma, 399, 1307, 1450
- Nerves, ciliary, anatomy of, 1425
controlling ocular tension, 985
of ciliary muscle, 653
reafference principle and, 654
- Nervous influence, on ocular tension, 1074
- Nervous system, fluorescein permeability and, 654
- Netherlands, retinoblastoma in, 191
- Neuraminic acid, isolation from eye tissues, 861
- Neutralize, in chemical injury of cornea, 1331
- Nevoxantho-endothelioma, treatment of, 1
- New England Ophthalmological Society, 638, 846, 1428
- New York Society for Clinical Ophthalmology, 361, 1049
- Newborn, retinal hemorrhages in, 1005
- News Items, 201, 408, 674, 875, 1082, 1464
- Nicotinic acid, influence on blood vessels uvea and retina, 654
- Nystagmus, myopia, choroiderma and, 200

O

- Obesity, retinal degeneration and, 664
- Obituaries, Espino, Jose Manuel, 1058
- Veltier, Edmond, 164
- Occupations, open to young blind, 1081
- Ochronosis, alkapturia and, 440, 867
- Ocular rigidity, postoperative changes in, 870
See also Scleral rigidity
- OCULAR TENSION: after succinylcholine and endotracheal intubation, 1442
contraction oculotaurtry muscles and, 1381
drop in, after acetazolamide, 183
effect argemone oil on, 1425
effect carbonic anhydrase inhibitors on, 1442
effect chlorothiazide on, 1452
effect edrophonium chloride on, 1381
effect Esidrex on, 1321
effect hyaluronidase on, 1075
effect hypothermia on, 1126/40
effect phospholine iodide on, 470
effect sanguinarine on, 1425
effect succinylcholine on, 1381
influence of, on aqueous formation and outflow, 1451
low, optic disc in, 666
nervous, influence on, 1074
mechanisms to control, 985
- reactive and regulatory fluctuations of, 869
- scleral rigidity and, 399
- succinylcholine during general anesthesia and, 1444
- urea to reduce, 164
- Oculofacial malformation, 200
- Ointments, particle size drugs in, 393
- Selsunef, in squamous blepharitis, 820
- Oncocerciasis, in Ghana, 1461
pathogenesis and pathology of ocular, 104, 327, 560
- One-eyed persons, compensation and, 1443
- Operations, plombage for retinal detachment, 403

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Ophthalmic, artery, hypertension, ocular tension and, 393
 problems in aviation, 1443
 Research, **623, 843, 1044, 1421**
 research, new methods for, 1048
 societies, Pan-American VIth congress, 641
 Ophthalmodynamometer, new, 1444
 Ophthalmodynamometry, in occlusion carotid, **1047**
 Ophthalmologist, refraction and, 174
OPHTHALMOLOGY: experimental, animals for, **1046**
 hospital center at Bal Khemis, 673
 logic applied to, 407
 mortality in, 1081
 Ophthalmometry, corneal curvature and, 181
 Ophthalmoplegia, carcinoma breast and exophthalmic, 723
 hereditary congenital, 180
 ocular myopathy and, 396
 Ophthalmoscope, indirect of Geneva eye clinic, 396
 mirror for Schepens, 177
 to measure retinal blood vessels, 177
 Ophthalmoscopy, Atlases of, a bibliography, **881**
 fixation during, 658
 indirect, **380**
 retinal photography combined with, **1403**
 Optic canal, doubling of, 1462
 Optic chiasm, glioma of, X-ray evidence of, 671
 Optic disc, aplasia and hypoplasia of, 190
 congenital anomalies of, 190
 congenital edema of, **1431**
 edematous, differential diagnosis of, **150**
 in low intraocular pressure, 666
OPTIC NERVE: atrophy of, doubling optic canal and, 1462
 hereditary and, 189
 in peripheral uveitis, **1257**
 Leber's, hereditary ataxia and, 667
 glioma of, X-ray manifestations of, 671
 retinoblastoma spread to contralateral, **815**
 size anomalies at head of, 873
 spongioblastomas of, 1077
 surgical access to, in dog, 1443
 Optic neuritis, hydrocortisone in, **824**
 in multiple sclerosis, 1077
 Optic pathways, lesions of, 197
 Optic radiation, vascularization of, 390
 Optical interferences, as basis of vision, 394
ORBIT: angiobfibrosarcoma of, 1456
 angioma of, 405
 encephalocele of posterior, 405
 extravascular pathways of, 135
 fracture of, blow-out, **1037**
 early treatment of, 404
 healing of, after extirpation, 193
 lesions of, angiography in, 176
 lipoma of, 1460
 pneumography of, 1443
 reconstruction of, Paladon implants in, 1457
 sarcoma primary in, 194
 tumors of, **1431**
 metastatic from bronchial adenoma, **833**
 Orbitonometry, in Graves' disease, **683**
ORTHOPTICS: cinematographic, 175
 modern concepts of, 394
 stereophrometer in, 865
 Oscilloscope, high frequency to magnify echogram, 1445
 Oxygen, absorption of lens, 654
 content of human aqueous, 172
- P**
- Pan-American Association of Ophthalmology, VIth congress, **641**
 Pachondritis, episcleritis and, 1446
 Papilla, biomicroscopic study of, 403
 Papilledema, due to subdural hematoma, 192
 intracranial disease and, 1456
 simulating brain tumor, 672
 Paragonimiasis, retrobulbar, 668
 Paraplegia, retinal degeneration and spastic, 667
 Parasites, eyelid scars due to, 1458
 infecting eyelid margins, 1080
- Parasympathetic stimulation, effect on anterior segment, 653
 Parinaud syndrome, differential diagnosis in, 867
 Pediatrics, ophthalmic problems in, **361**
 Pemphigus, of conjunctiva, eyelid deformities due to, 1458
 Periorbititis nodosa, eye lesions in, 199
 Perimetry, flicker, 864
 Philadelphia, College of Physicians of, Section on Ophthalmology, **845, 1430**
 Phosphate buffer study in chemical injury to cornea, 1331
 Phospholine iodide: See Echothiophate (217MI)
 Phosphorus, radioactive, test, **484**
 secretion of inorganic, in tears, **941**
 Photoallergic keratoconjunctivitis, **1324**
 Photocoagulation: See Light coagulation
PHOTOGRAPHY: device for anterior segment and chamber angle, 177
 fundus, 395
 micro-, with slitlamp, 864
 of optical sections, 178
 of retina, combined with ophthalmoscopy, **1403**
 slitlamp microscopy and, 395
 stereononio-, 863
 Pigment, changes in, after choroidal detachment, 898
 of retina, in aging, **1047**
 ochronotic, in alkaptunuria, **440**
 of retinal epithelium, ultrastructure of, **935**
 Plasma, of conjunctiva, 867
PLASTIC SURGERY: **1050**
 in symblepharon, 660
 of conjunctiva, 1073, 1448
 of eyelids, 194, 874, 1459
 malignant lesions and, 195
 Pleoptics, **1315**
 lasting results of, 395
 Plica semilunaris, lymphomatous hyperplasia of, **1415**
 Pneumography, orbital, 1443
 Posner-Schlossman syndrome, 1451
 Prazine, in preparation for cataract surgery, 403
 Presbyopia, age of development of, **998**
 Progesin, in ophthalmology, 865
 Properdin system, natural resistance to infection and, 652
PROTEINS: corneal, antigenic properties of, **504**
 c-reactive, clinical significance of, 175
 in inflammations, 654
 permeation aqueous by, 655
 tear, electrophoresis of, 195
 Pseudoglioma, 664
 Pseudomonas pyocyanea, 657
 Psychiatry, in ophthalmology, **638**
 Pterygium, surgery and strontium-90 in, **1024**
 Ptosis, etiology of, 670
 symposium on, 668, 669, 670
 Pupil, Adie: See Adie
 Argyll Robertson: See Argyll Robertson
 Elschnig's pearls occluding, 871
 light reaction of, study on, 172
 reflex, retinal adaptation and, **1427**
 Pupillary membrane, congenital, operation for, 661
 in premature infants, 657
-
- Radiation, beta, indications, technique, and complications, 7
 damage, to chiasm, 176
 to hypothalamus, 176
 therapy, in pterygium, surgery and, 1024
 of conjunctival sac, 177
 Radioactive phosphorus test, **484**
 Raeder's syndrome, subdural hematoma and, 193
 Reading, aid for, nonmagnifying, **1401**
 Reafference principle, 654
 Refraction, changes in, after extraocular muscle surgery, 659
 in different countries, **998**
 in myopic migrainous astigmatism, 1445
 ophthalmologists and, 174

SUBJECT INDEX

Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments

- Reiter's syndrome, 181
- neurologic symptoms and lesions of, 667
- Rendu-Osler syndrome, 670
- RETINA:** adaptation of, pupil reflex and, 1427
- artery embolism of, 872
 - due to endocardial myxoma, 192
 - pressure of, measurement of, 666
- blastomes of, 1079
- blood circulation of, cerebral circulation and, 657
- blood vessels of, development of, 390, 860
 - in diabetes, 1044
 - influence nicotinic acid on, 654
 - measuring width of, 177
- capillary circulation of, 173
- changes in, due to chorioretinal circulatory insufficiency, 861
- circulation time of, in man, 1442
- degeneration of, 872
 - fundus pigmentation in, 872
 - obesity and, 664
 - spastic paraparesis and, 666
 - tapeto-, 189
- DETACHMENT:** choroid coloboma and, 628
- echogram in, 1444
- evolution of, 188
- idiopathic, prophylactic treatment of, 872
- in peripheral uveitis, 1257
- light coagulation in, 87
- plombage operation for, 403
- preventative treatment of, 665
- scleral buckling in, complications of, 1454
- surgical rotation eyeball in, 1455
- ultrasound in, 249
- vitreous hemorrhage and, 188
- effect iodoacetate and thiol reagents on, 860
- epithelium of, ultrastructure of pigment, 935
- hemorrhage of, in newborn, 1005
- in diabetes, 1052
- in systemic disease, 665
- in virus infections, 665
- iodoacetate poisoning of rat, glycolysis in, 860
- light coagulation of, 665
- macrophages of, 1046
- metabolism, ERG study of, 873
- reactions of, in puerperal eclampsia, 653
- rodanese activity in, 171
- sensitivity of, in aphakia, 191
- vascular changes in, visual fields and, 188
- vascular diseases of, X-ray therapy in, 1311
- VEIN:** occlusion, glaucoma and, 1455
 - in peripheral uveitis, 1257
 - obstruction, anticoagulants in, 368
 - pulse of, study of, 1455
 - sheathing of, in multiple sclerosis, 1454
- Retinitis, Coats', 1076
- diabetic: See Diabetic retinopathy
- pigmentosa, deafness and, 664
 - EKG in, 762
 - ERG in sector-type, 403
 - familial sector-shaped, 1454
 - with bitemporal field defects, ERG in, 403
 - proliferans, systemic disease and, 375
- Retinoblastoma:** 664
 - in Netherlands, 191
 - spread of, to contralateral optic nerve, 815
- Retinopathy:** after chloroquine therapy, 664
 - central serous, test for, 147
 - sickle-cell, 1454
- Retinoscopy, frame for, 177
- Retrolental fibroplasia, 382
 - changes in pathology of, 1155/69
 - development of 10 children blinded by, 672
- Revue des hopitaux civils de Metz, 200**
- Rheumatic disease, iridocyclitis and, 1450
 - of eye, serologic examination in, 858
- Ridley lens: See Intracocular lenses
- Rigidity of eye, postoperative changes in, 870
- scleral: See Scleral rigidity
- Rod activity, at photopic levels, 1427
- Rodanese, activity in lens, 171
 - activity in retina, 171
- Roentgen: See X-ray
- S**
- Saline, effect normal solution on eye tissues, 895
- Salt, effect solutions of on eye tissues, 895
- Sarcoma, primary in orbit, 194
- Sato operation, discussion with fixation needle, 978
- Scars, diplopia due to, 863
- Schlemm's canal: See Canal of Schlemm
- Schools, eye health in, 631
- SCLERA:** ectasia of posterior, in dogs, 628
 - electrical conductivity of, 393
 - graft, in perforating eye injuries, 198
 - in glaucomatous human eyes, 411
 - surgery of, collagenous sutures in, 396
 - to support posterior, in myopia, 1341
- Scleral rigidity, ocular tension and, 399
- Schiötz tonometer and, 870
- Sclerosis, multiple: See Multiple sclerosis
- Scotoma, as sign of melanoblastoma of choroid, 1406
 - migrainous, studied in 618 persons, 489
- Scurvy, eyes and, 672
- Selsunef ointment, in squamous blepharitis, 820
- Seminoma, ocular metastases from, 1460
- Serology, in rheumatic disease of eye, 858
- Sex chromatin, as cell marker in corneal transplants, 513
- Sickle-cell disease, angioid streaks and, 450
 - fundus changes in, 450
 - retinopathy of, 1454
- Sinus, maxillary, carcinoma of involving eye, 1337
- Size, visual and tactile illusions of, 656
- Sjögren's syndrome, 660
- Skiascopy, fixation during, 658
- Slit-lamp, indications for cataract surgery, 402
 - microphotography with, 864
- Snake venom, conjunctivitis due to, 1446
- Society Proceedings, 361, 631, 854, 1051, 1428
- Solutions, balanced salt, effect on eye tissues, 895
 - Isopto-PNP, in external eye infections, 726
- Southeastern Section, abstracts, 843
- Soviet literature, on eye injuries, 198
- Spectacles, as therapeutic agents, 174
 - lenses, magnifying, to treat amblyopia, 175
- Spectrophotometric study of lens fluorescence, 172
- Spongiblastomas, of optic nerve, 1077
- Stereogniophotography, 863
- Stereophorometer, in orthoptics, 865
- Steroids, in herpes simplex of cornea, 1355
 - therapy, glaucoma and, 351
 - to treat corneal opacities, 906
 - to treat corneal vascularization, 906
- See also under names of various agents and products
- STRABISMUS:** amblyopia of, sensory and motor symptoms, 179
 - without, 656
 - anisometropia, amblyopia and, 865
 - comitant, management of, 1046
 - concomitant convergent, 1445
 - fixation anomalies and, 178
 - divergent, 1445
 - intermittent, 179
 - eccentric fixation and, age of onset in, 178
 - EMG in, 659
 - facial asymmetry and, 397
 - modern therapy of, 659
 - nonparalytic, 1046
 - etiology of, 1218/132
 - occlusion in, 866
 - small-angle, 1072
 - treatment of, in small children, 866
 - Stronium-90, in pterygium, surgery and, 1024
 - Succinylcholine, effect during general anesthesia, 1444
 - effect on ocular tension, 1381
 - in ocular surgery, 773
 - ocular tension after, endotracheal intubation and, 1442
 - Sun, eclipse of, watching, 1079

SUBJECT INDEX

xiii

Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments

- SURGERY of eye, discussion with aid of fixation needle, **978**
 glaucoma: See under Glaucoma
 keratoplasty: See Keratoplasty
 of blepharophimosis, **1357**
 of lagophthalmos, **1459**
 of pterygium, strontium-90 and, **1024**
 of senile ectropion, **1459**
 plastic: See Plastic surgery
 retinal detachment: See Retina, detachment
 succinylcholine in, **773**
 to improve lacrimal drainage, **1457**
 tranquilizers in, **361**
 use thrombin in, **863**
 vascular hypotension and, **864**
 SUTURES: buried mattress for cataract incision, **871**
 collagenous, in corneal and scleral surgery, **396**
 effect alpha chymotrypsin on, **64**
 in cataract surgery, **186, 711**
 modified intermarginal, **394**
 plain vs. chromized catgut, in cataract surgery, **711**
 spreader for, **854**
 Symblepharon, split-skin grafting in, **660**
 Sympathetic ophthalmia, **868**
 as an allergic phenomenon, **660**
 blood changes in, **658**
 SYNDROMES: Brill-Symmers, **874**
 Cogan's, **1017**
 Duane's retraction, **1072**
 Laurence-Mon-Biedl, **1410**
 Lawford's, **182**
 Louis-Bar, **1462**
 of lens exfoliation, **664**
 Parinaud, **867**
 Posner-Schlossman, **1451**
 Raeder's, subdural hematoma and, **193**
 Reiter's, **182**
 Rendu-Osler, **670**
 Sjögren's, **660**
 uveomeningeal, cranial contusion and, **1461**
- T**
- Tangent screen, illumination of, **395**
 Tarsal plate, bone formation in, amyloidosis and, after trachoma, **814**
 Tarsus, amyloidosis of, **1413**
 Tears, epiphora and: See Epiphora
 protein of dog, **626**
 secretion inorganic phosphorus in, **941**
 See also Lacrimal fluid
 TV, as visual task, **672**
 Tensilon: See Edrophonium chloride
 Tetanus serum, external rectus paralysis after, **179**
 Therapy, beta radiation: See Radiation, beta
 copper-sulfate, in cephalosporin keratitis, **267**
 desensitization in ocular tuberculosis, **378**
 light coagulation: See Light coagulation
 Thiotepa, corneal vascularization inhibited by, **1111/25**
 Thrombin, in ocular surgery, **863**
 Tissue culture, organ type, **624**
 to study preservation donor tissue for keratoplasty, **729**
 Tissues, effect balanced salt solutions on, **895**
 isolation neuraminic acid from, **861**
 scar, diplopia due to, **863**
 TONOGRAPHY: Calibration curves in, optical aid for, **1030**
 calculations in, **1074**
 clinical, recording galvanometer in, **80**
 experimental, of rabbit, **627**
 instrument for, **175**
 protracted, **184**
 Tonometer, Goldmann applanation, clinical application of, **967**
 new electric, **175**
 standardization of, **662**
 Wolfe scleral, **355**
 validity of, **1047, 1221**
- TONOMETRY: applanation, **399**
 fluorescein in, **1149/63**
 experimental (rabbit), **627**
 history of, **1451**
 in research, **1044**
 routine, **869**
 Torticollis, muscle anomalies and, **180**
 superior oblique hypofunction in, **865**
 Toxoplasmosis, acquired, **1080**
 chorioretinitis and, **661**
 congenital, **843**
 Trabecula, normal, **1089/3**
 of wall of Schlemm's canal, drainage openings in, **1045**
 Trabecular meshwork, histopathology of, **1089/3**
 TRACHOMA: bone in tarsal plate, amyloidosis and, after, **814**
 ciliary ganglion in, **392**
 epidemic Koch-Weeks conjunctivitis and, **801**
 experimental, **623**
 in Gambia, **171**
 in Jordan, **171**
 in Mexicans in United States, **624**
 prophylaxis of, **1447**
 virus isolated from, **623**
 Tranquillizers, ophthalmic surgery and, **361**
 Triamcinolone, in corneal opacities and vascularization, **906**
 in ocular inflammations, **55, 516**
 Tuberculin, sensitivity, after sensitization with leukocytes, **1423**
 Tuberculosis, allergic reaction of, effect cortisone on, **392**
 desensitization therapy in ocular, **378**
 in etiology of eye diseases, **1441**
 of conjunctiva, differential diagnosis in, **867**
 of lacrimal gland, **196**
 TUMORS: bronchogenic carcinoma, metastatic to aphakic eye, **96**
 carcinoma, yttrium-90 in, ocular complications of, **476**
 diktyoma, **606**
 echogram in, **196**
 epibular, **406**
 exophthalmos due to metastatic, **1034**
 identification of, ultrasound in, **249**
 intraocular, biopsy in, late complications of, **1079**
 metastatic, **405**
 metastases in extrinsic muscles, **723**
 of choroid, **869, 1406**
 echogram in melanoma of, **196**
 of conjunctiva, **867**
 of cornea, conjunctivo-sclero-keratoplasty in, **180**
 of eyelids, **1457, 1460**
 of lacrimal caruncle, **670**
 of lacrimal gland, **670, 1428, 1429**
 of lacrimal sac, **671, 1420**
 of limbus, **180**
 of maxillary sinus, eye involvement in, **1337**
 of optic chiasm, X-ray evidence of, **671**
 of optic nerve, **1077**
 X-ray, evidence of, **671**
 of orbit, **405, 833, 1431, 1456, 1460**
 of pituitary, transsphenoidal operation for, **1460**
 of retina, **1079**
 of skin, kerato-acanthoma, **822**
 of uvea, **612**
 melanoma, **594**
 217MI: See Phospholine Iodide
 Typhoid vaccine, in penetrating injuries, **671**
- U**
- Ulcers: See under names of various organs and areas
 Ultrasound, **249**
 echograms of: See Echograms
 in choroid melanoma, **196**
 to diagnose foreign bodies, **1461**
 Ultrastructure, See Electron microscopy
 Urea, secretion into tears in keratoconjunctivitis sicca, **859**
 to reduce intracranial and intraocular pressure, **164**

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Utrecht, glaucoma clinic at University of, 1463
UVEA: blood vessels of, influence nicotinic acid on, 654
 malignant melanoma of, **594, 612**
 mast cells in, **1426**
- UVEITIS:** auto-immune, **629**
 catamnestic studies after, 868
 chloroquine in experimental, 660
 herpes simplex, experimental, **627**
 histoplasmosis and granulomatous, 205
 meninges in, 1073
 peripheral, clinical description, complications and differential diagnosis, **1257**
 sympathetic: See Sympathetic ophthalmia
 toxoplasmic, allergic recurrence of, **1423**
 treatment of, 181
 triamcinolone in, **35**
- Uveomeningeal syndrome:** cranial contusion and, 1461
- V**
- Vaccination, BCG, eye disease after, 1441
Varicella: eye complications of, **672**
 Vasodilators, comparison of, **625**
 Velter, Edmond, **164**
Vergence: accommodation and, **1140/54**
Vernal conjunctivitis: See Conjunctivitis, vernal
 Vibration, high frequency of eye, 172
VIRUS: adenovirus 8, human experiments with, 858
 diseases of eye, 653
 encephalitis, herpes zoster and, 667
 infections, retinal manifestations of, 665
VISION: binocular, re-education of, 658
 failing, vascular changes and, 188, 199
 four-way screener to test, **154**
 limited, **157**
 optical interference, as basis of, 394
 subnormal, management of, **1430**
 utilization of, 174
 TV, as task of, 672
Visual acuity: dependence on parafovea, 656
 frequency distribution of, **1047**
 in low illumination, 862
Visual contrast thresholds: study on, 174
Visual cortex: vascularization of, 390
Visual fields: flicker perimetry and, **864**
 in degenerative punctata albescens, 1455
 in intracranial lesions, 1077
- Visual fields (*continued*)
 in stenosis aqueduct of Sylvius, **261**
 loss, disability evaluation and, 1445
 Visual perception, motor reactions and, 873
 Visual screening, four-way screener for, **154**
 Visual stimulation, binocular summation of subliminal repetitive, **1121/35**
- Vitamin **B₁₂** in herpes zoster, 172
- VITREOUS:** cells of, **391**
 electrical conductivity of, **393**
 hemorrhage of, diagnosis of, 1444
 retinal detachment and, 188
 ultrasound in, **249**
 hyaluronate, **1360**
 macrophages of, **1046**
 of human, **1185/99**
 opacities, echogram in, **1301**
 persistent hyperplastic, congenital aphakia and, **945**
 plasma, aqueous and, **1046**
 resorption gaseous substances from, 655
 structure of, diffusion studies and, **625**
- W**
- Water, diffusion of, in cornea, **1011**
 Western Section, abstracts, **623**
Wounds: See under names of various organs and areas
- X-Y-Z**
- Zanthogranuloma, juvenile, **1**
 Xanthopterin, in experimental corneal wounds, **171**
 X-ray, therapy, in Eales' disease, **1311**
 in glioma of optic nerve and chiasm, **671**
 in iridocyclitis, **398**
 in nevoxanthio-endothelioma, **1**
 in proliferative diabetic retinopathy, **1077**
 in retinal vascular disease, **1311**
 to diagnose endobulbar foreign bodies, **197**
 to diagnose lacrimal gland tumors, **1428**
- X rays, lens fluorescence after, 172
- Yttrium-90 hypophysectomy, ocular complications of, **476**
- ZONULOLYSIS:** **187, 401**
 enzymatic, **173, 531, 861, 871**
 in cataract extraction, **531, 861, 1453**
 experiences with, in 320 cataract extractions, **188**
 histology of, **67**

INDEX

Authors and Titles

of

Original Articles and Notes, Cases, Instruments

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

A

AGATSTON, Howard, BARNERT, Alan H., and FELDSTEIN, Morris: Corneal lenses in ophthalmic practice, **277**

ALLEN, James H.: See BAHN, Gustav C. See also BYERS, J. L.

ALMEDA, Ernesto M.: Metastatic pneumococcal endophthalmitis: Secondary to pneumococcal meningitis, **353**

ALPERN, Mathew: See HOGG, Raymond E.

ALPERN, Mathew, FLITMAN, Donald B., and JOSEPH, Robert H.: Centrally fixed flicker thresholds in amblyopia, **1194/108**

ALPERN, Mathew, and LARSON, Bertil F.: Vergence and accommodation: IV. Effect of luminance quantity on the AC/A, **1140/54**

ALVAREZ, Walter C.: The migrainous scotoma as studied in 618 persons, **489**

APTER, Julia T.: Responses and distribution of the human extraocular muscles, **1178/92**

ARATA, Alberto Ferrer: See MORALES, Adolfo Gómez

ARMSTRONG, James R.: See BENNETT, James E.

B

BAHN, Gustav C., SONNIER, Earl, and ALLEN, James H.: Therapeutic studies in experimental chemical injury of the cornea: II. Phosphate buffer (Neutralize) studies, **1331**

BALIK, Joseph: Secretion of inorganic phosphorus in tears, **941**

BARNERT, Alan H.: See AGATSTON, HOWARD

BASU, P. K.: See FIELDING, I. L.

BASU, P. K., MILLER, Irene, and ORMSBY, Hugh L.: Studies on the antigenicity of corneal heterografts, **511**

BASU, P. K., Miller, Irene, and ORMSBY, Hugh L.: Sex chromatin as a biologic cell marker: In the study of the fate of corneal transplants, **513**

BAUM, Gilbert, and GREENWOOD, Ivan: Ultrasound in ophthalmology, **249**

BECKER, Bernard: Use of methazolamide (Neptazane) in the therapy of glaucoma: Comparison with acetazolamide (Diamox), **1307**. See also CONSTANT, Marguerite A.; Holmberg, Ake; POLLACK, Irvin P.

BEDELL, Arthur J.: Ophthalmoscopically visible small spots in the ocular fundus, **674**

BEDFORD, P. D., and DANIEL, F. M.: Discrete carcinomatous metastases in the extrinsic ocular muscles: A case of carcinoma of the breast with exophthalmic ophthalmoplegia, **723**

BENNETT, James E., ARMSTRONG, James R., and SCHRAFF, Albert G.: Conjunctivoantrostomy: A surgical treatment of epiphora: A preliminary report, **246**

BERNICK, Sol: See PATEK, Paul R.

BERNSTEIN, Martin, and UNGER, Sol M.: Experiences with surgery and strontium-90 in the treatment of pterygium, **1024**

BINKHORST, C. D.: Results of implantation of intraocular lenses in unilateral aphakia: With special reference to the pupillary or iris clip lens: A new method of fixation, **703**

BLODI, Frederick C., and VAN ALLEN, Maurice W.: The effect of paralysis of the cervical sympathetic system on the electromyogram of extraocular muscles in the human: With particular reference to the striated levator in Horner's syndrome, **679**

BROCKHURST, R. J., SCHEPENS, C. L., and OKAMURA, I. D.: Uveitis: Peripheral uveitis: Clinical description, complications and differential diagnosis, **1257**

BROWN, O. A.: Tumor of the lacrimal sac, **1420**

BROWNLSS, Robert D.: Bulbar subconjunctival epithelial cyst, **151**

BUEN, Sadi De: Retinoblastoma: With spread by direct continuity to the contralateral optic nerve: Report of a case, **815**

BUEN, Sadi De, and GONZALEZ-ANGULO, Amador: Diktyoma (embryonal medullo-epithelioma): Review of the literature and report of a case, **606**

BYERS, J. L., HOLLAND, M. G., and ALLEN, J. H.: Cephalosporin keratitis, **267**

C

CARMICHAEL, Paul L., and LEOPOLD, Irving H.: The radioactive phosphorus test in ophthalmology, **484**

CARR, F.: See DRANCE, S. M.

CARTER, Leland F.: Multiple-purpose utility instrument, **1420**

CHAN, Guy: See GEERAETS, Walter J.

CHANDLER, Paul A.: Long-term results in glaucoma therapy: The Sanford R. Gifford Lecture, **221**

CHAVAN, Shankar B., and CUMMINGS, Edward J.: An initial evaluation of (Aristocort®) triamcinolone in the therapy of ocular inflammation: Part I. Experimental studies, **55**; An initial evaluation of (Aristocort®) triamcinolone and its acetonide derivative in the therapy of ocular inflammation: Part II. Clinical studies, **516**

CHAVAN, Shankar B., and KING, John Harry, Jr.: Experimental lamellar heterografts: Comparison of fresh and preserved donor corneas, **1387**

CHI, H. H., TENG, C. C., and KATZIN, H. M.: Healing process in the mechanical denudation of the corneal endothelium, **693**

CHISHOLM, Julian F., Jr.: The progressive changes in the pathology of early retrothal fibroplasia, **1155/69**

CHOYCE, D. P.: The correction of unioocular aphakia by means of all-acrylic anterior chamber implants, **417**

CHRISTY, Norval E.: Effect of early ambulation: On the incidence of postoperative complications of cataract surgery, **293**

CLARKE, Samuel Tracy: Essential atrophy of the iris: With the report of an unsuccessful attempt to prevent glaucoma by early iridectomy, **147**

COLLETTE, J. M.: See FRANÇOIS, J.

CONEJO, Fernando Rodriguez: The League Against Blindness, **1021**

CONSTANT, Marguerite A.: See POLLACK, Irvin P.

CONSTANT, Marguerite A., and BECKER, Bernard: The effect of carbonic anhydrase inhibitors on urinary excretion of citrate by humans, **929**

CONSTANT, Marguerite A., and ENOCH, Jay: A simple optical aid: For obtaining calibration curves in tonography, **1030**

COUCH, J. R.: See FELDMAN, Gerald L. See also FERGUSON, T. M.

CROLL, Leo J.: See CROLL, Maurice

CROLL, Maurice, and CROLL, Leo J.: Emotional glaucoma, **297**

CULLEN, J. F.: See LASSMAN, L. P.

CUMMINGS, Edward J.: See Chavan, Shankar B.

CURTIN, Brian J.: Surgical support of the posterior sclera: Part I: Experimental results, **1341**

Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments

D

- DALY, David D.: See KEEFE, William P.
 DAMASKUS, Charles W.: Various laboratory aspects of alpha chymotrypsin, **1117/31**
 DANIEL, P. M.: See BEDFORD, P. D.
 DAWSON, Chandler R.: Epidemic of Koch-Weeks conjunctivitis and trachoma: In the Coachella Valley of California, **201**
 DODDS, Ricardo: See MALBRAN, Enrique
 DRANCE, S. M., and CARR, F.: Effects of Phospholine-Iodide (21PMI) on intraocular pressure in man, **470**
 DRANCE, S. M., MURRAY, R. G., and SMITH, T. R.: The effect of alpha chymotrypsin on suture materials, **24**
 DREWS, Robert C.: See YAMASHITA, Tsuyoshi

E

- EIRING, A.: See STOCKER, Frederick W.
 ELLIS, Philip P.: See HAMMEKE, John C.
 ENOCH, Jay: See CONSTANT, Marguerite A.
 ERDBRINK, W. L.: Blow-out fracture of the orbit, **1037**

F

- FAIR, John R., and LEVI, George A.: Keratitis and deafness, **1017**
 FAJARDO, Romeo V., HAMILTON, Ralph, and LEOPOLD, Irving H.: The effect of hydrochlorothiazide (Esidrex) on intraocular pressure in man, **1321**
 FALLS, Harold F., and GILES, Conrad L.: The use of amphotericin B in selected cases of chorioretinitis, **1200**
 FEIGENBAUM, Aryeh: Early history of cataract and the ancient operation for cataract, **305**
 FELDMAN, Gerald L.: See FERGUSON, T. M.
 FELDMAN, Gerald L., FERGUSON, T. M., and COUCH, J. R.: Dinitrophenol-induced cataracts in the avian embryo, **1168/82**
 FELDSTEIN, Morris: See AGATSTON, Howard
 FERGUSON, T. M.: See FELDMAN, Gerald L.
 FERGUSON, T. M., SWANSON, A. A., COUCH, J. R., FELDMAN, G. L., and RIGDON, R. H.: Experimental studies on cataract formation, **1165/79**
 FIELDING, I. L., BASU, P. K., and ORMSBY, Hugh L.: Antigenic properties of fresh and stored corneal proteins, **504**
 FISHOF, Frank E.: Bronchogenic carcinoma: With metastasis to aphakic eye, **96**
 FLEMING, T. C.: See MERRILL, D. L.
 FLITMAN, Donald B.: See ALPERN, Mathew
 FLOM, Leonard: Alpha chymotrypsin and ruptured hyaloid, **357**
 FORSTER, H. Walter, Jr.: Choroidal detachment following cataract extraction: A case report, **1408**
 FRANCOIS, J., NEETENS, A., and COLLETTE, J. M.: An unknown canalicular network of the iris revealed by microradiology, **1267**
 FUCHS, Adalbert: Geographic distribution of senile cataract, **1039**; Frequency of myopia gravis, **1418**

G

- GALIN, Miles A.: Nervous mechanisms for the control of intraocular pressure, **985**
 GAVARINI, O.: See NANO, Héctor M.
 GAZALA, Joseph R.: Progressive essential iris atrophy, **713**
 GEERAETS, Walter J., and GUERRY, DuPont, III: Angioid streaks and sickle-cell disease, **450**
 GEERAETS, Walter J., LIEB, Wolfgang, A., CHAN, Guy, and GUERRY, DuPont, III: Immunohistochemical analysis of experimental corneal transplants, **740**
 GEORGLADE, N.: See STOCKER, Frederick W.
 GEORGIADE, R.: See STOCKER, Frederick W.
 GILES, Conrad L.: Retinal hemorrhages in the newborn, **1005**. See also FALLS, Harold F.

- GIRARD, Louis J.: Corneal forceps, **616**. See also MERRILL, D. L.
 GIVNER, Isadore: Juvenile diabetes, **358**
 GIVNER, Isadore, KALLOS, Andrew, MEDINE, Myer, and ORFUSS, A. J.: Kerato-acanthoma: Report of two cases, **822**
 GOLDBERG, Bernard, ZAVELL, Saul, and KARA, Gerald B.: A new solution for topical application in external eye infections, **726**
 GONZALEZ, Cesar: Topical fludrocortisone (9-alpha fluoroxydihydrocortisone) in ophthalmology, **619**
 GONZALEZ-ANGULO, Amador: See BUEN, Sadi de
 GORIN, George: Shortening of the angle of the anterior chamber in angle-closure glaucoma, **141**
 GOTZT, Heinz: The corrective treatment of amblyopia with eccentric fixation, **1315**
 GRAY, Leon Fowler, and ROBINSON, John P.: The clinical evaluation of echothiophate (Phospholine Iodide) in the treatment of glaucoma, **1162/76**
 GREENWOOD, Ivan: See BAUM, Gilbert
 GUERRY, DuPont, III: See GEERAETS, Walter, J.
 GUERRY, DuPont, III, and WIESINGER, Herbert: Light coagulation, **67**. Amyloid disease of conjunctiva and tarsus: A case report, **1413**

H

- HAGEDOORN, A.: See KOK-VAN ALPHEN, C.
 HAMEED, Sami, and NATH, Kailash: Bone formation in the tarsal plate: Associated with amyloidosis following trachoma, **814**
 HAMILTON, Ralph S.: Blepharoptosis, congenital and acquired: Relationships of anatomy and pathologic physiology to surgical correction, **337**. See also FAJARDO, Romeo V.
 HAMMEKE, John C., and ELLIS, Philip P.: Mycotic flora of the conjunctiva, **1174/88**
 HARDIN, Hilliard: See PINE, Leo
 HARPER, John Y., Jr., and POMERAT, C. M.: Effect of electrolyte mixtures on cells from human iris, **446**
 HARRIS, Jonathan L.: Glaucoma associated with steroid therapy and atopic dermatitis, **351**
 HART, William M.: See PECKHAM, Robert H.
 HAVENER, William H.: Clinical experiences with the photocoagulator, **1212/126**. See also HOWARTH, Charles H.
 HAVENER, William H., and PATTERSON, James: The Wolfe scleral tonometer, **355**
 HEDGES, Thomas R., Jr.: See MONTANA, Jerome A.
 HENDERSON, John W.: Explosive subchoroidal hemorrhage associated with cataract extraction: Report of a case with survival of the eye, **791**
 HENRY, Morris M.: Nonperforating eye injuries with hyphema, **1298**
 HICKS, B. L.: See LEWALLIN, William M., Jr.
 HOGG, Raymond E., and ALPERN, Mathew: How valid is a scleral tonometer, **1221/135**
 HOLLAND, M. G.: See BYERS, J. L.
 HOLM, Arvid G., and KAUFMANN, Werner C.: Uveal malignant melanomas, **612**
 HOLMBERG, Ake: See LEY, Albert P.
 HOLMBERG, Ake, and BECKER, Bernard: The effect of hypothermia on aqueous humor dynamics: II. Ultrastructural changes in the ciliary epithelium, **1134/48**
 HOWARTH, Charles H., and HAVENER, William H.: Differential diagnosis of an edematous optic disc, **150**
 HOWAT, J. M. L.: See LASMAN, L. P.

I

- ICHIKAWA, Hiroshi: See NAKAJIMA, Akira
 IRONSIDE, William M. S.: See NEWELL, Frank W.

J

- JAMPOLSKY, Arthur: See KORNBLUETH, Walter
 JONES, Ira S.: See REESE, Algernon B.

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- JONES, Lester T.: The anatomy of the lower eyelid: And its relation to the cause and cure of entropion, **79**
 JOSEPH, Robert H.: See ALPERN, Mathew

K

- KAHAN, A., and KAHAN, I. L.: Studies on vitreous hyaluronate: Paper electrophoresis and chromatographic behavior of it and of its enzymatic break-down products, **1360**

KAHAN, I. L.: See KAHAN, A.

KALLOS, Andrew: See GIVNER, Isadore

KANDORI, Fumio, KUROSE, Yoshitoshi, and KURIMOTO, Shinji: Clinical effects of Neptazane, **1396**

KARA, Gerald B.: See GOLDBERG, Bernard

KATZIN, H. M.: See CHI, H. H.

KAUFMANN, Werner C.: See HOLM, Arvid G.

KEEFE, William P., YOSS, Robert E., MARTENS, Theodore G., and DALY, David D.: Ocular manifestations of narcolepsy, **953**

KEYS, Thomas E., and RUCKER, C. Wilbur: The Atlases of Ophthalmoscopy: A bibliography, 1850-1960, **881**

KIFFNEY, G. Thomas, Jr., and STOCKER, Frederick W.: Plain versus chromicized catgut sutures in cataract surgery, **711**

KING, John Harry, Jr.: See CHAVAN, Shankar B.

KINOSIAN, Henry J.: Systemic histiocytosis: With intraocular involvement: Report of a case, **967**

KOK-VAN ALPHEN, A., and HAGEDOORN, A.: Peripheral melanoblastoma of choroid: (Para) central scotoma as an initial sign, **1406**

KORNBLUETH, Walter, JAMPOLSKY, Arthur, TAMLER, Edward, and MARG, Elwin: Contraction of the extraocular muscles and intraocular pressure: A tonographic and electromyographic study of the effect of edrophonium chloride (Tensilon) and succinylcholine (Anectine) on the intraocular pressure, **1381**

KRILL, Alex E., and STAMPS, Frederick W.: The electroencephalogram in retinitis pigmentosa, **762**

KRIMSKY, Emanuel: A four-way sight screener, **154**. A modified Prince rule, **827**

KRISHNA, Narendra, and LEOPOLD, Irving H.: The effect of BC-48 (demecarium bromide) on normal rabbit and human eyes, **270**. Use of BC-48 (demecarium bromide) in treatment of glaucoma, **554**

KULSHRESTHA, O. P.: See SHARMA, B. C.

KULVIN, Max M., and SAWCHAK, Walter G.: Tumor of the orbit: Metastatic from malignant bronchial adenoma, **833**

KURIMOTO, Shinji: See KANDORI, Fumio

KUROSE, Yoshitoshi: See KANDORI, Fumio

KUSHNER, Paul: General anesthesia: For ophthalmic surgery in children, **839**

L

- LANGHAM, Maurice E.: The inhibition of corneal vascularization by triethylene thiophosphoramide, **1111**/
15

LARSON, Bertil F.: See ALPERN, Mathew

LASSMAN, I. P., CULLEN, J. F., and HOWAT, J. M. L.: Stenosis of the aqueduct of Sylvius, **261**

LAVYEL, Amos: Selsunef ointment to treat squamous blepharitis, **820**

LAWLOR, Robert C., and LEE, Pei-pei: Use of echo-thiophate (Phospholine Iodide) in the treatment of glaucoma, **808**

LEAHEY, Brendan D.: Beta radiation in ophthalmology, Indications, technique and complications, **7**

LEE, Pei-pei: See LAWLOR, Robert C.

LEINBACH, R. F.: A nonmagnifying reading aid, **1401**

LEOPOLD, Irving H.: See CARMICHAEL, Paul L.; FAJARDO, Romeo V.; KRISHNA, Narendra; McCOY, Georgia A.

LEVI, George A.: See FAIR, John R.

LEWALLEN, William M., Jr., and HICKS, B. L.: The use of succinylcholine in ocular surgery, **773**

LEY, Albert F., HOLMBERG, Ake S., and YAMASHITA, Tsuyoshi: Histology of zonulolysis with alpha chymotrypsin employing light and electron microscopy, **67**

LIEB, Wolfgang A.: See GEERAETS, Walter J.

LONGFELLOW, Donald W.: See MAUMENE, A. Edward

LUGOSSY, Gyula: Glaucoma of myopic individuals and its operation, **981**. Modified iridencleisis, **1368**

M

- McCoy, Georgia A., and LEOPOLD, Irving H.: Steroid treatment of alloxan-induced corneal opacification and vascularization, **906**. Steroid treatment of herpes simplex infections of the cornea, **1385**

MCLAUGHLIN, Samuel C., Jr.: An hypothesis concerning the etiology of nonparalytic strabismus, **1218/132**

MAGDER, Harry: Test for central serous retinopathy: Based on clinical observations and trial, **147**

MAJIMA, Akio: See NAKAJIMA, Akira

MALBRAN, Enrique, and DODDS, Ricardo: Megalocornea: And its relation to congenital glaucoma, **908**

MANCHANDA, S. S.: See NIRANKARI, M. S.

MARG, Elwin: See KORNBLUETH, Walter

MARTENS, Theodore G.: See KEEFE, William P.

MARTINEZ, Miguel: A device for centering corneal grafts, **617**. See also PATON, R. Townley

MATTON, M. Th.: See STOCKER, Frederick W.

MAUDGAL, M. C.: See NIRANKARI, M. S.

MAUMENE, A. Edward, and LONGFELLOW, Donald W.: Treatment of intraocular nevoxantho-endothelioma (juvenile xanthogranuloma), **1**

MAURICE, D. M.: The movement of fluorescein and water in the cornea, **1011**

MEDINE, Myers: See GIVNER, Isadore. See also PRIESTLEY, Bruno S.

MEMBRIVES, Juan Reforzo: See MORALES, Adolfo Gómez

MERRILL, D. L., FLEMING, T. C., and GIRARD, Louis J.: The effects of physiologic balanced salt solutions and normal saline on intraocular and extraocular tissues, **895**

MILLER, Irene: See BASU, P. K.

MILLER, James E.: A comparison of miotics in accommodative esotropia, **1350**

MONTANA, Jerome A., and HEDGES, Thomas R., Jr.: Carcinoma of the maxillary sinus with ocular involvement: Report of four cases, **1337**

MORALES, Adolfo Gómez, ARATA, Alberto Ferrer, and MEMBRIVES, Juan Reforzo: Clinical orbitometry: In the progress and treatment of Graves' ophthalmopathy, **683**

MOSES, Robert A.: Fluorescein in applanation tonometry, **1149/63**

MURRAY, R. G.: See DRANCE, S. M.

N

- NAKAGAWA, Osamu: See NAKAJIMA, Akira

NAKAJIMA, Akira, ICHIKAWA, Hiroshi, NAKAGAWA, Osamu, MAJIMA, Akio, and WATANABE, Masanobu: Ishihara test in color-vision defects: Studies on a statistical method for evaluation of the screening efficiency of several plates, **921**

NANO, Héctor M., GAVARINI, O., and PÉREZ, Humberto A.: RO 1-7683/15: A new and effective mydriatic, **950**

NATH, Kailash: See HAMEED, Sami

NATH, Rajendra: See SHARMA, B. C.

NEETENS, A.: See FRANCOIS, J.

NÉMETH, Lajos: Blepharophimosis and its operation, **1357**

Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments

NEWELL, Frank W., and IRONSIDE, William M. S.: Ocular complications of transsphenoidal yttrium-90 hypophysectomy, **476**
 NIRANKARI, M. S., MANCHANDA, S. S., and MAUDGAL, M. C.: Laurence-Moon-Biedl syndrome, **1410**

O

OKAMURA, I. D.: See BROCKHURST, R. J.
 OKSALA, Arvo: The echogram in vitreous opacities, **1301**
 O'NEILL, Patricia M.: See SPAETH, Philip G.
 ORFUSS, A. J.: See GIVNER, Isadore
 ORMSBY, Hugh L.: See BASU, P. K. See also FIELDING, Irene L.

P

PATEK, Paul R., and BERNICK, Sol: Extravascular pathways of the eye and orbit, **135**
 PATTON, R. Townley, and MARTINEZ, Miguel: A corneal trephine: With built-in optical centering device, **1031**
 PATTERSON, James: See HAVENER, William H.
 PECKHAM, Robert H., and HART, William M.: Binocular summation of subliminal repetitive visual stimulation, **1121/35**
 PÉREZ, Humberto A.: See NANO, Héctor M.
 PETROHELOS, Manos A.: See WOLTER, J. Reimer
 PHILLIPS, Carlton C.: See PRIESTLEY, Bruno S.
 PINE, Leo, HARDIN, Hilliard, TURNER, Larry, and ROBERTS, Shaler E.: Actinomycotic lacrimal canalicularis: A report of two cases with a review of the characteristics which identify the causal organism, *Actinomycetes israelii*, **1278**
 POLLACK, Irving P., BECKER, Bernard, and CONSTANT, Marguerite A.: The effect of hypothermia on aqueous humor dynamics: I. Intraocular pressure and outflow facility in the rabbit eye, **1126/40**
 POMERAT, C. M.: See HARPER, John Y., Jr.
 PRIESTLEY, Bruno S., MEDINE, Myer M., and PHILIPS, Carlton C.: Cyclomydril: A new mydriatic agent, **1033**
 PRINCE, Jack H., and RUSKELL, Gordon L.: The use of domestic animals for experimental ophthalmology, **1202/116**

Q

QUEIROGA, Geraldo: Retinal photography and ophthalmoscopy combined in one instrument, **1403**

R

RAMBO, Victor C., and SANGAL, C. P.: A study of the accommodation of the people of India: With further notes on the development of presbyopia at different ages in different peoples, **993**
 REESE, Algernon B., and JONES, Ira S.: The treatment of Eales' disease by roentgen therapy, **1311**
 RICHARDS, Richard D.: Unilateral exophthalmos: Caused by metastatic carcinoma, **1034**
 RIDON, R. H.: See FERGUSON, T. M.
 ROBERTS, Shaler S.: See PINE, Leo
 ROBERTS, Winston: Clinical tonography: With and without a recording galvanometer, **80**
 ROBINSON, John P.: See GRAY, Leon Fowler
 RODGER, F. C.: The pathogenesis and pathology of ocular onchocerciasis: Part I. Introduction to the subject and thesis; Part II. The pathogenesis; Part III. The posterior segmental lesion, **104**; Part IV. The pathology, **327**; Part V. The pathology, **560**
 RONES, Benjamin: Ochronosis oculi in alkaptonuria, **440**
 ROSENBAUM, Joseph George: The care of ophthalmic surgical instruments, **903**
 RUCKER, C. Wilbur: See KEYS, Thomas E.
 RUEDEMANN, A. D., Jr.: Modified Burch type evisceration with scleral implant, **41**
 RUSKELL, Gordon L.: See PRINCE, Jack H.

S

SAMUELS, S. Lawrence: Inflammatory granuloma of the iris, **829**
 SANGAL, C. P.: See RAMBO, Victor C.
 SAWCHAK, Walter G.: See KULVIN, Max M.
 SCHEPENS, C. L.: See BROCKHURST, R. J.
 SCHMIDT, Theo A. F.: The clinical application of the Goldmann applanation tonometer, **967**
 SCHRAFF, Albert G.: See BENNETT, James E.
 SCRUGGS, James H.: Malignant melanoma of the uvea, **594**
 SHARMA, B. C., KULSHRESTHA, O. P., and NATH, Rajendra: Optic neuritis: Evaluation of treatment with retrobulbar hydrocortisone, **824**
 SIMMONDS, Noel T.: Anthrax of the eyelid, **838**
 SMITH, T. R.: See DRANCE, S. M.
 SONNIER, Earl: See BAHN, Gustav C.
 SPAETH, Philip G., and O'NEILL, Patricia M.: Functional results with contact lenses in unilateral congenital cataracts, high myopia and traumatic cataracts, **548**
 STAMPS, Frederick W.: See KRILL, Alex E.
 STOCKER, Frederick W.: See KIFFNEY, G. Thomas, Jr.
 STOCKER, Frederick W., MATTON, M. Th., EIRING, A., GEORGIADE, R., and GEORGIADE, N.: Long-term preservation of donor tissues for corneal grafting: Correlation of results from tissue cultures with those from experimental graftings, **729**
 SUGAR, Saul: The course of change in size of successful filtering cicatrices, **795**
 SUIE, Ted: Present status of experimental iso-allergies in relation to the eye, **36**
 SVERDICK, José: The origin of the aqueous humor: And the secretory activity of the epithelium of the ciliary body, **780**. Primitive lymphomatous hyperplasia: Of the palpebral conjunctiva, conjunctival cul-de-sac and plica semilunaris, **1415**
 SWANSON, A.: See FERGUSON, T. M.

T

TAMLER, Edward: See KORNBLUETH, Walter
 TANIGUCHI, Toshiaki: Ultrastructure of pigment granules of retinal epithelium: II. Dog, fish, frog, monkey, mouse and pig, **395**
 TEIR, Harald: See VANNAS, Salme
 TENG, C. C.: See CHI, H. H.
 THORPE, Harvey E.: Enzymatic zonulolysis: Alpha chymotrypsin: An aid to intracapsular cataract extraction, **53**
 TOWNES, C. Dwight: Complete or peripheral iridectomy in cataract surgery, **286**
 TURNER, Larry: See PINE, Leo

U

ULLERICH, K., WULF, K., and WISKEIMAN, A.: Photoallergic keratoconjunctivitis, **1324**
 UNGER, Sol H.: See BERNSTEIN, Martin

V

VAN ALLEN, Maurice W.: See BLODI, Frederick C.
 VANNAS, Salme, and TEIR, Harald: Histologic observations of the structure of the sclera in glaucomatous human eyes, **411**
 VELZEBOER, C. M. J.: Spontaneous choroidal detachment: Report of two cases, **898**

W

WAHLEN, Henry E.: See WOODS, Alan C.
 WAITZMAN, Morton B.: Autonomiclike effects of ocular extracts, **1208/122**
 WATANABE, Masanobu: See NAKAJIMA, Akira
 WEINSTEIN, Paul: A new concept of the glaucoma problem, **1032**

AUTHORS INDEX

xix

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- WIESINGER, Herbert: See GUERRY, DuPont, III
 WISKEmann, A.: See ULLERICH, K.
 WOLTER, J. Reimer: Histopathology of the trabecular meshwork in glaucoma, **1089**/**3**. The macrophages of the human vitreous body, **1185**/**99**
 WOLTER, J. Reimer, and PETROHELOS, Manos A.: Congenital aphakia, **945**
 WOODS, Alan C., and WAHLEN, Henry E.: The probable role of benign histoplasmosis in the etiology of granulomatous uveitis, **205**
 WORST, J. G. F.: A dacryocystorhinostomy needle, **153**
 WUEST, Frederick C.: A useful stretcher: For transportation of the intraocular surgical patient, **618**

- WULF, K.: See ULLERICH, K.

Y

- YAMASHITA, Tsuyoshi: See LEY, Albert P.
 YAMASHITA, Tsuyoshi, and DREWS, Robert C.: Discussion with the aid of a fixation needle (Sato technique), **978**
 YOSS, Robert E.: See KEEFE, William P.

Z

- ZAVELL, Saul: See GOLDBERG, Bernard

COLOR ILLUSTRATIONS

VOLUME 49

JANUARY-JUNE, 1960

* * *

- TREATMENT OF INTRACULAR NEVOXANTHO-ENDOTHELIOMA (JUVENILE XANTHOGANULOMA). A. Edward Maumenee and Donald W. Longfellow facing page 1
 THE PROBABLE ROLE OF BENIGN HISTOPLASMOSIS IN THE ETIOLOGY OF GRANULOMATOUS UVEITIS. Alan C. Woods and Henry E. Wahlen facing page 205
 HISTOLOGIC OBSERVATIONS OF THE STRUCTURE OF THE SCLERA IN GLAUCOMATOUS HUMAN EYES. Salme Vannas and Harald Teir facing page 411
 THE CORRECTION OF UNIOLAR APHAKIA BY MEANS OF ALL-ACRYLIC ANTERIOR CHAMBER IMPLANTS. D. P. Choyce facing page 428
 AN INITIAL EVALUATION OF (ARISTOCORT®) TRIAMCINOLONE AND ITS ACETONIDE DERIVATIVE IN THE THERAPY OF OCULAR INFLAMMATION: PART II. CLINICAL STUDIES. Shankar B. Chavan and Edward J. Cummings .Facing pages 524 and 525
 A NEW SOLUTION FOR TOPICAL APPLICATION IN EXTERNAL EYE INFECTIONS. Bernard Goldberg, Saul Zavell and Gerald B. Kara facing pages 728 and 729
 THE ATLASES OF OPHTHALMOSCOPY: A BIBLIOGRAPHY, 1850-1960. Thomas E. Keys and C. Wilbur Rucker facing page 881.



AMERICAN JOURNAL OF OPHTHALMOLOGY

THIRD SERIES FOUNDED BY EDWARD JACKSON

VOLUME 50
JULY-DECEMBER, 1960

EDITORIAL STAFF

DERRICK VAIL, *Editor-in-Chief*

FRANCIS HEED ADLER, *Consulting Editor*

ALAN C. WOODS, *Consulting Editor*

BERNARD BECKER
WILLIAM L. BENEDICT
FREDERICK C. CORDES
SIR STEWART DUKE-ELDER
EDWIN B. DUNPHY
F. HERBERT HAESSLER
PARKER HEATH
S. RODMAN IRVINE
BERTHA A. KLIEN

JAMES E. LEBENSOHN
DONALD J. LYLE
WILLIAM A. MANN
P. ROBB McDONALD
A. EDWARD MAUMENEY
FRANK W. NEWELL
JOHN V. V. NICHOLLS
ALGERNON B. REESE
PHILLIPS THYGESEN

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*
MILDRED SKINNER, *Advertising and Business Manager*

COLLABORATORS

JOSEPH E. ALFANO, *Chicago*; EUGENE M. BLAKE, *New Haven*; SYLVAN BRANDON, *Houston*; JAMES W. BRENNAN, *Buffalo*; WILLIAM C. CACCAMISE, *Rochester, New York*; ALSTON CALLAHAN, *Birmingham*; RAY K. DAILY, *Houston*; IRWIN E. GAYNON, *Milwaukee*; VICTOR GOODSIDE, *Bronx, New York*; BERTHA T. HAESSLER, *Milwaukee*; HARRY HORWICH, *Coral Gables, Florida*; MORRIS KAPLAN, *Denver*; GYULA LUGOSSY, *Budapest, Hungary*; WALTER MAYER, *Richmond, Virginia*; PAUL W. MILES, *Saint Louis*; EDWARD U. MURPHY, *Evansville, Indiana*; GUNTHER K. VON NOORDEN, *Iowa City*; LAWRENCE T. POST, *Saint Louis*; DAVID SHOCH, *Chicago*; JOHN J. STERN, *Utica, New York*; PHILLIPS THYGESEN, *San Jose, California*; A. URRETS-ZAVALIA, JR., *Cordoba, Argentina*.

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY
664 North Michigan Avenue, Chicago 11, Illinois



SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

A

- Abnormalities: See Congenital anomalies
ABSTRACTS: 191, 350, 516, 673, 820
 1. Anatomy, embryology, and comparative ophthalmology, 191, 516, 820
 2. General pathology, bacteriology, immunology, 191, 517, 820
 3. Vegetative physiology, biochemistry, pharmacology, toxicology, 192, 517, 821, 1255
 4. Physiologic optics, refraction, color vision, 197, 520, 824, 1257
 5. Diagnosis and therapy, 198, 521, 825, 1258
 6. Ocular motility, 201, 526, 673, 831, 1260
 7. Conjunctiva, cornea, sclera, 203, 527, 673, 834, 1261
 8. Uvea, sympathetic disease, aqueous, 205, 529, 674, 837, 1263
 9. Glaucoma and ocular tension, 206, 530, 674, 838, 1263
10. Crystalline lens, 208, 534, 679, 1267
11. Retina and vitreous, 209, 536, 679, 1272
12. Optic nerve and chiasm, 210, 350, 681, 1278
13. Neuro-ophthalmology, 351, 683, 1280
14. Eyeball, orbit, sinuses, 353, 685, 1281
15. Eyelids, lacrimal apparatus, 354, 686, 1282
16. Tumors, 356, 686, 1284
17. Injuries, 356, 687, 1285
18. Systemic disease and parasites, 357, 687, 1286
19. Congenital deformities, heredity, 360, 688, 1288
20. Hygiene, sociology, education, and history, 362, 688, 1288
- Accidents, prevention of auto, **815**
Accommodation, paralysis of, 684
 phenomenon of, 825
ACETAZOLAMIDE: effect on ocular tension, **291**
 effect on response to anterior chamber puncture, **1141**
 venous pressure and, 822
 See also: Carbonic anhydrase inhibitors, Diamox
ACID: neuraminic of aqueous, 823
 of cornea, 823
Acromegaly, ocular tension in, 533
Acrylic lenses: See Intraocular lenses
Adenoma, of glands of Moll, 1284
Adie syndrome, 352
ADLER, Francis Heed, **1252**
 biography, 1027
 editor, **339**
 portrait of, 1024
 publications of, **1029**
 salutations to, **1025, 1026**
Adrenal hypoplasia, keratomalacia and, 1262
Afghanistan, trachoma in, 204
After-images, studies on, 197
 successive contrast and, 521
 to treat amblyopia, 198
Akinesia, of eyelids, 523
Albinism, in Chédiak-Higashi syndrome, **1197**
 nystagmus and, 361
Alcoholism, deficiency amblyopia in, 1279
ALLERGY: cataract and, 535
 medication, 191
 of cornea, experimental, **583**
 phenomena of, 517
 pterygium and, **635**
 to cortisone, 1283
 to simple chemicals, **937/267**
 traumatic factor in, 821
uveitis and, **1170**
ALPHA CHYMOTRYPSIN: **337**
 biochemistry of, 519
 effect on corneal wound healing, 834
 effect on hyaloid membrane, 193
 effect on retina, 518
 effect on zonule, 193
 in cataract extraction, 534, 536, **649**, 679, 1269
 postoperative complications of, 535
 in dendritic ulcer, **496**
- ALPHA CHYMOTRYPSIN (*continued*)
 in intraocular hemorrhage, 1259
 in lesions of lacrimal passages, 1282
 irrigating cannula for, **500**, 524
 ocular effects of, 519
 pharmacology of, 519
 report of committee on, 520
 trypsin and, in cataract surgery, 1267
 unfavorable effects of, 1271
 See also: Zonulolysis
Amaurosis, after carotid occlusion, cyclodiathermy for, 1285
AMBLYOPIA: after-images to treat, 198
 deficiency, in alcoholism, 1279
 Euthiscope to treat, 1258
ex anopsia, Cüpper's method for, 520
 photic driving in, 171
in concomitant strabismus, 202
inhibition in, 832
legal evaluation of, 825
phylogensis of, 198
pleoptics in, 521
strabismus and, **504**
 inhibition of eye with, 520
 motor difficulties in, 1260
treatment of, 198
visual acuity in treated, 824
without strabismus, sensory-motor co-ordination in, 684
American Academy of Ophthalmology: address of president, 362
 meeting, 1960, **816**
American Ophthalmological Society, meeting, **182**
Amino acids, of lens 193
of vitreous, 193
Anaphylaxis, corneal, 528
ANESTHESIA: **199**
 hypnosis as, 163
 in children, 201
ANEURYSMS: conjunctival, in diabetes, 1262
intracranial, head pain and, **654**
Leber's miliary, photocoagulation in, **590**
neuroma of orbit, cerebral and, 356
supraciliom, 359
Angioid streaks, sickle-cell disease and, 215
Angioma, cerebral, headache and, 351
Angioreticuloma, of orbit, 686
Anions, organic, transport of, **862/192, 867/197**
Anomalous correspondence, early squint surgery and, 202
Anophthalmia, bilateral, 688
Anoxia, cerebral, hemianopia and, **654**
ANTERIOR CHAMBER: angle, color stereophotograph of, 1258
 degeneration, in vicinity of, **365**
 effect beta radiation on, **469**
 mucopolysaccharides in fetal, **801**
 obstruction of, 196
behavior corneal epithelium in, **276**
cannula, 201
depth of, 826
epithelial cysts of, surgery for, 835
lens, present status of, **250, 663**
 See also Intraocular lenses
puncture, effect acetazolamide on response to, **1141**
 in extraction of foreign bodies, 1285
Antibiotics, in postoperative intraocular infections, **1225**
in *Pseudomonas* corneal ulcers, 673
newer, intraocular penetration of, **614**
See also under names of various products
Antibody, fluorescein-tagged, in diagnosis herpes simplex, **179**
formation, in cornea, **527**
production, in rabbit eyes, **115**
 in toxoplasmosis, 820
Anti-inflammatory agents, in postoperative intraocular infections, **1225**

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Aphakia, contact lens for, 1272
 intraocular lens in, 250
 retinal detachment in, prophylaxis of, 1276
 unilateral, contact lens for, 11
- AQUEOUS:** accumulation C^4 -labelled urea in, 1130
 blood plasma ration and, 192
 carbohydrates in, 517
 corticosteroids in, 196, 822
 cytogram of, in iridocyclitis, 828
 degenerative effects of, 365
 drainage, plastics for, 733
 entrance sodium into, 517
 flare, photograph of, 521
 micro-electrophoresis of, 674
 neuraminic acid content of, 823
OUTFLOW: after glaucoma operations, 534
 effect miotics on, 518
 effect ocular tension on, 821
 in endocrine exophthalmos, 1260
 resistance to, 194
 rheometry to measure, 1256
 passageways, in primary glaucoma, 37
 pilocarpine in, polarography to study, 1256
 prednisolone in, 822
 proteins in, in diabetes, 530
 Aqueous veins, during Diamox treatment, 1266
 Arachnoiditis, cerebral pneumography in opticochiasmic, 201
 opticochiasmic, 1031
 uveomeningitis and, 351
- Arsenic:** toxic retinopathy due to, 64
- Arteries:** surgery of, 828
- Arteriovenous crossing phenomena,** 314
- Arteritis:** temporal, ocular palsies in, 358
- Arthritis:** rheumatoid, in uveitis, 837
- Asthenopia,** 198
 cause of, 1257
- Atherosclerosis,** 215
- Atlas of Ophthalmoscopy:** A correction, 345
- Australia:** trachoma in, 1262
 treatment of, 1259
- Autolysis:** lens changes due to, 1269
- Autopsy eyes:** study of, 424, 574
- B**
- Bacteriophage typing, of *Staph. aureus*, 821
- Barkans, Hans, 185
- Behind the iron curtain, 110
- Beta radiation: See Radiation, beta
- Biopsy, percutaneous renal, in retinal vascular disease, 691
- Biomicroscopy,** of fundus, 805
- Bitot spots, 568
- Blepharophimosis:** surgery of, 686
 treatment of, 355
- Blepharospasm:** postencephalitic, 684
- Blindness:** in Maltese Islands, 362
- BLOOD:** circulation in eye, after carotid occlusion, 688
 collateral formation of, 691
 CO₂ equilibria of, ocular tension and, 291
 fluorescence in circulating, 176
 plasma-aqueous ratio, 192
 pressure, fronto-orbital centers to regulate, 193
 serum, exophthalmos-inhibiting factor in, 1193
 whole, to treat corneal abrasions, 673
- Boo-Boo, n., 343
- BOOK REVIEWS**
- All-India Ophthalmological Society, Proceedings, 514
- Böke, William: The Influence of the Adrenal Corticoids on the Inflammatory Reaction of the Eye, 347
- Brindley, G. S.: Physiology of the Retina and Visual Pathway, 514
- Clark, William B. (editor): Symposium on Glaucoma, 513
- Confilia Neurologica: Oto-Neuro-Ophthalmology in Pediatrics, 672
- Duke-Elder, Sir Stewart, and Perkins, E. S. (editors): The Transparency of the Cornea, 818
- BOOK REVIEWS (continued)**
- Field, John, Magoun, H. W., and Hall, Victor: Handbook of Physiology: Section I: Neurophysiology, Volume II, 190
- Finestone, S., Lowry, F., Lukoff, I., and Whiteman, M.: Social Casework and Blindness, 190
- Frederick, Portia M., and Towner, Carol: The Office Assistant in Medical Practice, 671
- Gordon, Benjamin L.: Medieval and Renaissance Medicine, 819
- Guibor, George P.: Squint and Allied Conditions, 189
- Hirsch, Monroe J.: Vision of the Aging Patient, 515
- Jayle, G. E., and DuBois-Poulsen, A.: L'Année Thérapeutique et Clinique en Ophthalmologie, 347
- Leydhecker, Wolfgang: Glaukom; Ein Handbuch, 348
- Lyle, T., Keith, and Bridgeman, G. J. O.: Worth and Chavasse's Squint, 189
- McKusick, Victor A.: Heritable Disorders of Connective Tissue, 672
- Reed, Howard: The Essentials of Perimetry, 346
- Roselle, N., DeDoncker, K., Jolie, P., Van Betsbrugge, A., and Ligot, S.: Electromyography in Nervous Diseases and Cryptotetany, 348
- Schapero, M. S., Cline, David, and Hofstetter, H. W.: Dictionary of Visual Science, 671
- Smith, Homer W.: From Fish to Philosopher: The Story of Our Internal Environment, 346
- Spencer, Marietta B.: Blind Children in Family and Community, 819
- Streiff, E. B. (editor): Advances in Ophthalmology: Volume IX, 670
- Zagora, Edward: Industrial Ophthalmology, 672
- Bowman's membrane, ultrastructure of, 1013/343
- BRAIN:** abnormalities of, visual fields in, 683
 damage to, role in congenital dyslexia, 583
 visual fields in, 829
- fundus findings in tumors of, 352
- herniation of, hemianopia and, 1280
 lesions of, nystagmus and, 684
 papilledema and, 1084
- Bromide intoxication, eye disturbances in, 478
- Brucellosis, uveitis and, 1170
- Buphthalmia, prognosis in, 523
- Burchell, Edgar Brower, 508
- Burns: See under Injuries
- Butazolidin, concentration in aqueous, 1255
- C**
- Cannula, anterior chamber, 201
 irrigating for alpha chymotrypsin, 500, 524
- Canthotomy, cantholysis and, 388
- Carbohydrates, in aqueous, 517
 in vitreous, 517
- Carbonic anhydrase, in young eye, 338
 inhibition, effect on ocular tension, 291, 1266
- See also: Acetazolamide, Diamox
- Carcinoma, metastatic of choroid, 356
- of eyelid, radium to treat, 686
- of face, 1285
- of orbit, 1281
- Carotid, compression, retinal arterial pressure after, 259
 collateral circulation to eye, in occlusion internal, 688
 occlusion, amaurosis after, cyclodiatotherapy in, 1285
 thrombosis, eye findings in, 1259
- Carotid-cavernous fistula, retinal detachment after, 537
- Caruncle, tumor of, 1284
- Cat-scratch disease, 1287
- CATARACTS:** allergy and, 535
 aspiration of congenital or soft, 1048
 complicated, 1271
- CONGENITAL:** aspiration of, 1048
 surgery of, 209, 1048
 syndromes with, 1268
- due to high density electromagnetic field, 1271
- EXTRACTION:** alpha chymotrypsin in, 534, 536, 679
 postoperative complications after, 535
- See also: Alpha chymotrypsin, Zonulolysis
 choroidal detachment after, 529

SUBJECT INDEX

v

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- CATARACTS (*continued*)
 EXTRACTION (*continued*)
 complications of, 536
 due to anterior vitreous, 1270
 hydrodynamic, 326
 lens delivery in, 649
 new instruments for, 1271
 phakoeresis of Barraquer in, 679
 refraction before and after, 1269
 galactosemia, 1151
 heredity and, 534
 in idiopathic hypoparathyroidism, 1269
 incision, complications of, 367
 mature, glycuronic acid of, 534
 naphthalene, 535
 operations, Wheeler discussion and iridotomies, practice
 method, 494
 postnatal, 1267
 SURGERY: alpha chymotrypsin in, 1269
 unfavorable effect of, 1271
 complications of, 536
 deturgescence of vitreous before, 1271
 endophthalmitis in, 825
 in first 10 years of life, 209
 postoperative complications of, 535
 retinal detachment after, 716
 trypsin and alpha chymotrypsin in, 1267
 with zonulolysis, late sequelae of, 1271
 traumatic, surgery of, 209
 Cephalosporium mycelium, corneal destruction by, 926/256
 Cerebral, disturbance, cerebral circulation and, 684
 disease, nystagmus and, 684
 See also under Brain
 Cerebrovascular lesions, ophthalmic diagnosis and management of impending, 395
 Cezanne, visual space in paintings of, 197
 Chediak-Higashi syndrome, ocular manifestations of, 1197
 Chicago Ophthalmological Society, 662
 CHILDREN: anamnesis and ocular functions in, 831
 anesthesia in, 201
 color vision defects in school, 139
 electroretinography in, 827
 ocular anomalies in school, 139
 ocular tumors in, 1284
 optic neuritis in, 682
 visual testing of school, 521
 Chloramphenicol, 614
 Chloroquine, keratopathy, 204
 toxicity, 529
 Cholinesterase, activity in ocular tissues, 115, 622
 Choriocapillaris, in autopsy eyes, 582
 Chororetinal atrophy, in autopsy eyes, 424
 peripheral, in autopsy eyes, 374
 CHOROID: carcinoma of, 356
 cellular infiltration of, 1197
 detachment of, after cataract extraction, 529
 hemangioma of, 3
 melanoma of, 330, 1285
 P³² to localize, 674
 metastases to, treated with cytostatic drugs, 206
 nerves of human, 820
 sclerosis and atrophy of, in collie dogs, 451
 Ciliary body, histochemical study of primate, 407
 -iris preparations, accumulation Diodrast in, 862/192
 pigment epithelium of, 1066
 Ciliary epithelium, potentials of, 855/185
 Ciliary nerves, anatomy of, 820
 in autopsy eyes, 424
 Cilioretinal artery, occlusion of, 188
 Citral, effect on intraocular dynamics, 309
 Coats' disease, 538
 Colistin in Pseudomonas infections, 33
 Collagen, defect of in scurvy, 821
 Coloboma, of lens, acquired, 1269
 of optic disc, 681
 Color blindness, total, enigma of, 996/326
 Color contrasts, size effects of, 177
 Color sense, in pregnancy, 188
 Color vision, defects of, in school children, 139
 COLOR VISION (*continued*)
 spectral hue loci in, 178
 study on, 177
 Compensation: See Disability compensation
 Concretions, subconjunctival, 528
 CONGENITAL ANOMALIES: defect elevation and retraction of globe, 203
 eyelid tumors and, 355
 in Rieger's disease, 1288
 in school children, 139
 maternal rubella and, 361
 of eyes, in collie dogs, 451
 of optic disc, papilledema and, 1084
 Congo, optic nerve lesions in, 1278
 CONJUNCTIVA: aneurysms of, in diabetes, 1262
 involvement, in eyelid neurofibroma, 354
 lymphosarcoma of, 147
 tuberculosis of, 265
 Conjunctivitis, in oligoleukocytic animals, 834
 petrifying, 837
 punctate viral, 1263
 Yxin in abacterial, 834
 Contact lenses, complications of, 836
 for aphakia, 1272
 unilateral, 11
 Co-Ral, coralex and, systemic effects of, 622
 ocular effects of, 170
 Coralex, Co-Ral and, systemic effects of, 622
 in glaucoma, 797
 studies on, 115
 CORNEA: abrasion of, whole blood to treat, 673
 allergy of, experimental, 583
 anaphylaxis and, 191, 528
 antibody formation in, 527
 arcus of, in young persons, 835
 cell reaction, after scarification of, 528
 chloroquine toxicity and, 529
 conical: See Keratoconus
 contact lens, for biomicroscopy of fundus, 805
 destruction of, by Cephalosporium mycelium, 926/256
 DYSTROPHY: congenital hereditary, 1114
 crystalline, 835
 glaucoma, vitiligo, otosclerosis and, 1263
 keratoplasty in, 1100
 lattice, 1261
 electric resistance of, 528
 epithelium, effect chemical caustics on, 528
 electrophoresis of, 195, 824
 in anterior chamber, behavior of, 276
 ultrastructure of, 1013/343
 fistula of, complicating keratoplasty, 368
 fluid covering, cytology of, 516
 guttata, secondary, 17
 herpes simplex of, treatment, 1262
 in leprosy, 834
 infections of, due to Pseudomonas, 674, 836
 soframycin in, 527
 Kayser-Fleischer ring of, 674
 neuraminic acid content of, 823
 neurotrophic disturbances of, 836
 pigment epithelium proliferation in, 1066
 spectrochemical analysis of, 821
 staphyloma of, 368
 tattooing, 830
 new pigment for, 325
 ulcers, due to Pseudomonas, 673
 vascularization of, injuries and, 1263
 water-soluble proteins of, 520
 wounds of, effect alpha chymotrypsin on, 834
 healing of, curetttement and, 174
 Corneal transplantation: See Keratoplasty
 CORRESPONDENCE
 Bibliography on retrolental fibroplasia, 511
 Color sense in pregnancy, 188
 Correction: Atlases of Ophthalmoscopy, 345
 Correction: Intravenous urea, 818
 Fluorescein in applanation tonometry, 668
 Occlusion of cilioretinal artery, 188
 Ocular onchocerciasis, 188
 Unmasking a deception, 345

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

Corticosteroids, in aqueous, 196
after local and parenteral application, 822
in experimental toxoplasmosis, 919/249
in keratoplasty, 1100
in uveitis, 236

Cortisone, allergic dermatitis after, 1283
ocular damage with, 823

Cörper, amblyopia and method of, 520

Cyclodialysis, 1207

clefts, action DFP on, 789

Cyclodiatotherapy, cycloelectrolysis and, 599
gonioscopy after, 208

to treat amaurosis after carotid occlusion, 1285

Cycloelectrolysis, cyclodiatotherapy and, 599

Cyproheptadine (MK-141, Peractin) effect on eyes, 465

CYSTS: epithelial of anterior chamber, surgery of, 835
from pigment epithelium, 1066
intraorbital epidermoid, 1281

of iris, 334

of orbit, 685

D

Dacryocystitis, nephritis due to, 1282
therapy in, 1283

Dacryocystorhinostomy, 1283

Daraprim, hematologic toxicity of, 821

Dark adaptation, ERG and, 875/205

Demecarium bromide (BC-48) in glaucoma, 270

Depth perception, in small-angle strabismus, 202

Dermatitis, allergic due to cortisone, 1283

eye diseases and, 358

Descemetocoele, keratoplasty in, 1124

DIABETES: aqueous proteins in, 530

hypoglycemic sulfonamides in, 399

juvenile, retinopathy and, 358

mellitus, incidence glaucoma in, 55

retinopathy and nephropathy in, 680

neuropathy in, 808

oculomotor, 808

DIABETIC RETINOPATHY: 1274

heparin in, 338, 483

prednisolone in, 1275

Diamox, aqueous veins during treatment with, 1266

in experimental hyphema, 743

influence on accumulation C^{14} -labeled urea in aqueous, 1130

S^{m} , localization of, 169

Diathermy, in traumatic hyphema, 747

transscleral, in hemangioma of choroid, 3

DFP, action on cyclodialysis clefts, 789

bilateral lens opacities after, 153

neutralization by monoisonitrosoacetone, 414

Diodrast, accumulation in ciliary body-iris preparations, 862/192

in vivo transport of, 867/197

Diplopia, diagnosis and recording of, 522

Disability compensation, in mustard gas poisoning, 205

Diurnal variation, of ocular tension, to evaluate glaucoma operations, 430

Drugs, allergy to, 191, 937/267

antihemorrhagic, 521

antimalarial, visual disturbances with, 204

cytostatic, in choroidal metastases, 206

Otriven, vasoconstrictor, 195

Vasculet, for eye burns, 200

Dyslexia, congenital, role brain damage in, 583

Dystrophia myotonica, pupil motility in, 205

E

Echogram, in palpebral conditions, 524

See also under Ultrasound

Echothiophate, in glaucoma, 1264

Ectopia lentis, embryogenesis of, 1269

Ectropion, marginal (tarsal), 354

EDITORIALS:

Academy: 1960, 816

Adler, Francis Heed, Editor, 339

EDITORIALS (continued)

AOS: 1960, 182

Boo-Boo, 343

Glaucoma, 665

International Council of Ophthalmology, 344

Toward prevention of trachoma, 306

Elastic tissue, degeneration of, in sickle-cell disease, 213

Electrical potentials, of ciliary epithelium, 655/185

Electro-encephalogram, in congenital dyslexia, 583

in Hurler's disease, 204

Electromyography, 172

in myasthenia gravis, 830

Electron microscopy, 337

to study Bowman's membrane, 1013/343

to study corneal epithelium, 1013/343

to study neutron irradiation of eye, 175

Electromyogrammography, in concomitant strabismus, 203

Electro-oculography, 526, 1257

in ocular parasympathetic and nystagmus, 1260

in ocular proprioception, 172

Electrophoresis, immune, of lens, 1257

micro-, of aqueous, 674

of human tears, 793

of corneal epithelium, 195

of subretinal fluid, 175, 823

of water-soluble proteins of cornea, 520

Electrophysiology, in ophthalmology, 195

ELECTRORETINOGRAPHY: after stimulation with varicolored lights, 1255

dynamic, 828

fractionation, by sodium glutamate, 900/230

in batrachians, 820

in children, 827

in glutamate poisoning, 172

in Hurler's disease, 204

in pigment degeneration of retina, 680

in reptiles, 820

in retinal surgery, 1275

in retinal vein occlusion, 1278

night blindness, dark adaptation and, 875/205

retinal histology and, 1273

role of macula in, 889/219

Encephalocele, in orbit, 354

Endamoeba histolytica infections, uveitis due to, 496, 662

Endocrine, dysfunction, ocular changes due to, 26

Endophthalmitis, in cataract surgery, 825

Endothelium, protective role of, 365

Ectropion, congenital, 487

senile, surgery of Fox in, 1283

Nucleation, scleral prosthesis after, 1259

Enzymatic zonulolysis: See Zonulolysis

Enzymes, in retina, 192

Epilepharon, congenital, 487

Epilepsy, photogenic, 353

visual fields after lobectomy for, 1281

Eiphora, as initial sign of nasopharyngeal tumor, 644

Epitheliomas, cutaneous, adjacent to globe, 1284

of limbus, 1285

Erisophake, automatic release for, 525

Estrogens, in hyphema, 687

Euthroscope, in amblyopia, 1258

EXOPHTHALMOS: endocrine, 26, 685

aqueous outflow in, 1260

ocular rigidity in, 1260

ocular tension in, 1260

study sera patients with, 783

glaucoma and, 1282

inhibiting factor, in human serum, 1193

meningo-encephalocele of orbit and, 1282

piezometry in, 353

substance producing, in human serum, 783

Exotropia, surgery for, fusion and, 1158

Exudates, in autopsy eyes, 424

Eye-Banks, 1288

Eyebrows, plastic surgery of, 687

Eyedrops, alkaloid, buffering for, 192

Eyeground, melanoma of, photoocoagulation in, 687

EYELIDS: akinesia of, 523

carcinoma of, radium needles to treat, 686

echogram in diseases of, 524

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- EYELIDS** (*continued*)
 halving, 386
 inflammation of, mastoid and, 355
 Kaposi's sarcoma of, 686
 neurilemmoma of, 355
 neurofibroma of, 354
 oncocytoma of, 1284
 plastic surgery of, 353, 384
 reconstruction of, 355
 skin grafting for, 389
 splitting, 385
 surgery, basic techniques, their origins and apocrypha, 384
 tumor of, developmental anomalies and, 355
- EYES:** autopsy, gross and microscopic pathology in, 424
 pathology of, 574
 destruction of, due to chloride of zinc, 357
 embedding of, 191
 organs internal secretion and, 360
 sinuses and, 206
 Eyeshield, Gluck's postoperative, 1258
- F**
- Facial hemiatrophy, 352
 Favism, eye complications after, 1273
 Ferrer, Horacio, 186
 Filters, millipore, in ophthalmic surgery, 159
 Fixation, eccentric, amblyopia and, pleoptics in, 521
 diagnosis of, 523
 monocular, in strabismus, 520
 Flicker fusion, in dichromacy, 177
 Fluids, cerebrospinal, action on retinal vein pressure, 1257
 ocular, action on retinal vein pressure, 1257
 subretinal, electrophoresis of, 823
 Fluorescein, in applanation tonometry, 668
 transfer, in senescence, 822
- FOREIGN BODIES:** electrical instrument to remove, 525
 glaucoma secondary to retained, 169
 intraocular, anterior chamber puncture in extraction of, 1285
 Foster-Kennedy syndrome, vascular origin of, 351
 Fridenburg, Percy H., 667
- FUNDUS:** anatomic measurements of, 200
 biomicroscopy of, 805
 changes, retinographic study of, 314
 findings, in brain tumor, 352
 in cardiac surgery, 518
 photography of, 827
 improvised, 1259
 with ophthalmoscope, 1258
 Fungus infections, 687
 uveitis and, 1170
 Fusion, exotropia surgery and, 1158
- G**
- Galactosemia, cataract due to, 1151
 Galvanocautery, in retinal detachment, 679
 Gaudeamus igitur dum iuvenes sumus, 848/178
 Gelatin film, in ophthalmic surgery, 729
 Gelfilm, in ophthalmic surgery, 729
- GLAUCOMA:** 665
 action lytic cocktail in, 678
 acute, after surgery, 1264
 surgical results in, 1274
 angle-closure, intravenous urea in, 379
 chronic simple, diagnosis and follow-up, 677
 prognosis in, 676
 surgical problems in, 678
 closed-angle, peripheral iridectomy in, 530
 cochleovestibular changes in, 204
 congenital, treatment of, 1265
 coralex in, 797
 corneal dystrophy and, 1263
 cyclodialysis in, 1207
 See also Cyclodialysis
 developmental, operation for, 1187
 disc changes in, 838
- GLAUCOMA** (*continued*)
 dislocated lens and, 701
 echothiophate in, 1264
 exophthalmos and, 1282
 family study, 169, 357
 heredity in, 557
 hydrodynamic changes in, 530
 in diabetes mellitus, 55
 iris atrophy and, 207
 lens exfoliation and, 1267
 malignant, 838
 Marfan's syndrome and, 1187
 medical therapy of, 532
 BC-48 in, 270
 intravenous urea in, 379
 217MI in, 270
- OPERATIONS:** cyclodialysis: See Cyclodialysis
 cyclodiathermy: See Cyclodiathermy
 diurnal variation ocular tension to evaluate, 430
 follow-up on, 206
 gonioscopy to evaluate, 631
 iridocorneosclerectomy for, 45
 Malbran's, 678
 outflow index after, 534
 plastic in, 733
 tonography to evaluate, 430
 Scheie's, 1263, 1265, 1266
 trephination: See Trephination
 Weekers', 678
- ophthalmodynamometry in, 1265
 outflow index, after operations for, 534
 pigment migration in, 1066
 pigmentary, gonioscopy in, 676
 prevention of, 1264
- PRIMARY:** biopsy trabecular meshwork in, 37
 gonioscopy in, 531
 ocular tension determinations in, 674
 office management of, 531
 ophthalmoscopy in, 531
 outflow conditions in, 674
 perimetry in, 531
 signs and symptoms of, 531
 pseudoxfoliation of lens and, 208
 retinal detachment, sclerotonenitis and, 527
 rubesis iridis and, 1264
 Scheie's operations for, 1263, 1265, 1266
 scleral rigidity coefficient in, 531
 secondary to hemorrhage, hemosiderosis in, 1266
 to Marfan's syndrome, 533
 to retained foreign body, 169
 to retinal artery occlusion, 533
 to retinal vessel thrombosis, 208
- SURGERY:** 531
 consensual hypotony in, 1264
 destruction ciliary arteries in, 677
 publications on, 207
 symposium on, 812
 tests, provocative, 532
 water-drinking, 206
 tonography in, 532
 See also Tonometry
 tonometry in, 532
 See also Tondmetry
 trabecular meshwork and, 543
 tubular fields in, surgical results, 676
 visual field changes in, 838
 Glaucomatocyclitic crises, 163, 530, 838
 Glial hyperplasia of disc, 1284
 Glucose, uptake of lens, 974/304
 effect plasma on, 991/321
 Glycuronic acid, of mature cataract, 534
 Gnathostoma spinigerum, infections with, 358
 GONIOSCOPY: after cyclodiathermy, 208
 after iridencleisis, 439
 in pigmentary glaucoma, 676
 in primary glaucoma, 531
 to evaluate glaucoma operation, 631
 Gono-vessels, in normal and abnormal eyes, 1263
 Granuloma, complicating scleral buckling, 829

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

Granulomatosis, larval, of retina, 536

Wegener's 1203

perilimbal ulceration in, 835

Graves' disease, 26

ocular changes in, 1286

Groenblad-Strandberg syndrome, 213

Siegrist streaks and, 1277

Gyrus rectus, herniation of, 1044

H

Harms, theory on amblyopia in strabismus, 832

Headache, cerebral angioma and, 351

in intracranial aneurysm, 654

Hearing, in glaucoma, 204

Heart surgery, fundus in, 518

Helmholtz, the musician, 1097

Hemangiocytoma, of orbit, 685

Hemangioma, of choroid, 3

Hemeralopia, atypical, 1273

HEMIANOPIA: after injury to optic chiasm, 357

after operation for pulmonary abscess, 357

due to cerebral anoxia at high altitudes, 654

due to parietotemporal lobe lesions, 1056

homonymous, brain herniation and, 1280

vitreous hemorrhage and, 1280

Hemiplegics, right and left, comparison of, 627

Hemophthalmos, in thromboctyphathia, 358

HEMORRHAGE: alpha chymotrypsin in intraocular, 1259

drugs for, 521

expulsive, due to succinylcholine, 1270

glaucoma secondary to, hemisiderosis in, 1266

in autopsy eyes, 424

of vitreous hemianopia and, 1280

photocoagulation in, 590

postoperative, management of, 830

Hemisiderosis, in glaucoma secondary to hemorrhage, 1266

Heparin, in diabetic retinopathy, 338, 483

local application of, 525

to treat lime incrustation, 522

Heredity, in cataract, 534

in glaucoma, 557

in macular defects, 688

in pterygium, 635

Herpes, recurrent, keratoplasty in, 1124

simplex, diagnosis of, 179

of cornea, treatment of, 1262

zoster, gangrenous, 354

von Hippel-Lindau disease, photocoagulation in, 590

Hormones, effect on S¹⁸ uptake, 822

Hurler's disease, ERG and EEG in, 204

Hyaloid membrane, effect alpha chymotrypsin on, 193

Hyperplasia, glial of disc, 1284

Hypertension, retinopathy of, 209

transient myopia during treatment of, 827

Hyperthyroidism, endocrine eye lesions in, 1287

HypHEMA, conjugated estrogens in, 687

Diamox in experimental, 743

traumatic, prophylaxis in, 747

Hypnosis, in anesthesia, 163

Hypoparathyroidism, idiopathic, cataract in, 1269

I

Immunology, of lens, 985/315

to study reaction to simple chemicals, 937/267

to study Toxoplasma infections, 945/275

Implants, muscle-cone, 526

secondary, 502

Industry, disability compensation in: See Disability compensation

Infants, strabismus in, 834

strabismus and behavior of, 202

Infections, of orbit, papilledema and, 1084

postoperative intraocular, 1225

trichobacillus chloride in external eye, 595

Inflammation, of orbit, sinuses and, 353

Influenza, eye lesions in, 359

INJURIES: allergy and, 821

auto, prevention of, 815

burns, mucosal transplantation in, 357

Vasculat to treat, 200

chemical, Sympatol in, 823

concussion, iris hole after, 356

due to chloride of zinc, 357

fractures, of skull, 687

in corneal vascularization, 1263

lime, heparin to treat, 522

soft tissue, management of, 687

tear gas, 357

to eye in head injuries, 1285

whiplash, 357

INSTRUMENTS: automatic release for erisophake, 525

cannula, anterior chamber, 201

for alpha chymotrypsin irrigating, 500, 524

contact lens for biomicroscope, 805

cross-action needle-holder, 166

cutter for polyethylene, 628

duo-end, for iridectomy, 325

electric, to remove foreign bodies, 525

extraction loop for small lenses, 522

eyeshield, Gluck's postoperative, 1258

fixation targets for strabismus examination, 523

for cataract extraction, 1271

for pleoptics, 156

intracapsular forceps, 524

iris retractor, 524

keratome modification, 168

lacrimal suture-probe, 523

lens-iris forceps, 167

needle to extract dislocated lens, 701

ophthalmoscope attachment to diagnosis eccentric fixation, 523

ortho-stimulator, for strabismus, 526

photostimulator, 149

recession forceps, 167

reflecting mirror for Schepens ophthalmoscope, 328

speculum for animal surgery, 660

suction cup for clinical work, 526

to diagnosis and record diplopia, 522

International Council of Ophthalmology, 344

Intraocular dynamics, effect citral and vitamin A on, 309

Intraocular lenses, 1257

Iodine therapy, 200

Iraq, trachoma in, 204

Iridectomy, peripheral, in closed-angle glaucoma, 520

with scleral cauterization, 1266

Iridentesis, gonioscopic observations after, 439

infections after, 534

scleral trephination and, 1265

Iridocapsulotomy, by photocoagulation, 526

Iridocorneosclerectomy, for glaucoma, 45

Iridocyclitis, cytogram of aqueous in, 828

Middlebrook-Dubos test in, 180

Iridotomy, by photocoagulation, 526

IRIS: atrophy, 370

glaucoma and essential, 207

cyst of, stratified squamous, 334

hole in, after concussion injury, 356

pigment epithelium of, hyperplasia of, 1066

rubeosis of, 529

glaucoma and, 1264

hydrodynamic changes in, 530

Isoniazid, in conjunctival tuberculosis, 265

J

Jackson Memorial Lecture, XVI, 1268

Japanese, optic disc in, 1279

K

Kala-azar, retinal lesions in, 161

Kanamycin, 614

Kaposi's sarcoma of eyelid, 686

Kayser-Fleischer ring of cornea, 674

Keratitis, anaphylactic, 191, 528

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

KERATITIS (continued)

- distribution of, 835
- due to mustard gas, 205
- due to smallpox, 836
- Keratoconjunctivitis, chemical, 356
- sicca, 1286
- in sarcoidosis, 836
- Keratoconus, acute, 529
- keratoplasty in, 1124
- Keratomalacia, adrenal hypoplasia and, 1262
- distribution of, 835
- Keratopathy, bullous, surgery of, **815**, 835
- chloroquine, 204
- lentic, corneal guttata secondary to, 17
- KERATOPLASTY:** corneal fistula complication of, 363
- corticosteroids in, 1100
- experiences with, 1258
- grafts, delayed clouding in, 834
- preservation of, 529
- therapeutic, 1124
- in *Pseudomonas* corneal ulcers, 673
- to treat corneal dystrophy, 1100, 1124

L

- Lacrimal apparatus; duct surgery, Gelfilm in, **729**
- gland, response to parasympathetic mimetics, 1283
- tumor of, 356
- passages, alpha chymotrypsin in lesions of, 1282
- sac, tumor of, 1283
- surgery for, 1283
- suture-probe for, 523
- Lactation, optic neuritis during, 1279
- LECTURES:** XIV Francis I, Proctor, **543**
- Jackson Memorial, 1268
- deSchweinitz, **1031**
- LENS:** amino acids of, 193
- cations of, effect calcium on, 822
- changes, due to autolysis, 1269
- in galactosemia, **1151**
- colobomas, acquired, 1269
- culture, 524
- delivery, in cataract extraction, **649**
- determination lactic acid in, 518
- dislocated, extraction of, by José Barraquer method, **701**
- subconjunctival, 1267
- ectopia of, embryogenesis of, 1269
- exfoliation, glaucoma and, 1267
- in 100 aged persons, 1267
- glucose uptake of, effect plasma on, **991/321**
- oxygen tension and, **974/304**
- immune electrophoresis of, 1257
- influence autolysis on, 174
- influence fixatives on, 174
- ionizing radiation of, 175
- of steroid-treated rats, **1147**
- opacities of, bilateral after DFP, 153
- photography of, 1270
- organ specificity of, **905/315**
- oxygen tension and glucose uptake of, **974/304**
- peptidases of, 174
- peptides of, 193
- pseudoexfoliation of, 208
- small, extraction loop for, 522
- vitreous and: review, 534
- water of, 193
- Leprosy, ocular, 525
- pathology of, 834
- Leukoma, familial congenital, **810**
- Light coagulation: See Photocoagulation
- Light, epilepsy and exposure to, 353
- varicolored, eye stimulation with, 1255
- LIMBUS:** area of, **543**
- epithelioma of, 1285
- girdle, white of Vogt, **101**
- histology of, 203
- Lipoderma, facial, mandibulofacial dysostosis and, 360
- Luminosity functions, in dichromacy, 177
- Lymphosarcoma, of conjunctiva, **147**

M

- Macroglobulinemia, vascular changes in, 1274
- MACULA:** defects in, hereditary, 688
- diseases of, 538
- holes in, therapy of, 1272
- pigment epithelium in area of, **1066**
- role of, in ERG, **889/219**
- senile lesions of, 209
- Malaria, visual disturbances after drugs for, 204
- Maltese Islands, blindness in, 362
- Mandibulofacial dysostosis, facial lipodermia and, 360
- Manometry, miosis and ocular tension during, 525
- MARFAN'S SYNDROME:** 360
- glaucoma and, 533, **1187**
- ocular complications of, **814**
- Williams' prior description of, **154**
- Mastoid, eyelid inflammation and, 355
- Medicine, women and, 362
- Megalocornea, poikiloderma and, 1288
- Melanoblastoma, of papilla, 682
- MELANOMA:** glial hyperplasia of disc and, 1284
- of choroid, **330**, 1285
- P²² to localize, 674
- of uvea, 530
- Melanosis, oculofacial, 203
- Meningocele, of orbit, 685
- Meningo-encephalocele, of orbit, exophthalmos and, 1282
- Meningioma, en plaque, signs and symptoms of, **1087**
- of orbit, 1281
- Meningitis, optic nerve atrophy complicating, 1278
- Metabolism, protein, in eye, 518
- Miami Beach meeting, 1960, **340**
- Microaneurysms, of retinal capillaries, 680
- Mic.²-electrophoresis: See Electrophoresis
- Middlebrook-Dubos test, in uveitis, 828
- Miosis, during manometry, 525
- Miotics, effect on aqueous outflow, 518
- Moebius syndrome, 361
- Moll, adenoma of glands of, 1284
- Moniliosis, ocular complications of, 528
- Mooren's ulcer, keratoplasty in, 1124
- Motility, photography of, problems of, 832
- records, punch cards for, 830
- Motor anomalies, in school children, 139
- MOVEMENTS of eye: 1261
- in lesions parietotemporal lobe, **1056**
- in strabismic amblyopia, 1260
- in vascular syndrome, 352
- tendon sheath syndrome and, 672
- visual efficiency and, 673
- Mucopolysaccharides, in fetal anterior chamber angles, **801**
- MUSCLES of eye:** A and V syndrome, values for, 753
- divergence excess, surgery of, **297**
- external, congenital anomalies of, 203
- in thyroid disease, 473
- internal rectus, paralysis of, 202
- operations on, selection of, 831
- paralysis, of internal rectus, 202
- of superior oblique, 1260
- paresis of, cerebrovascular lesions and, 395
- responses and distribution of, 173
- superior oblique, paralysis of, 1260
- tendon sheath syndrome, 673
- thermodynamics of, 173
- transplantation, in A and V syndrome, 832
- in concomitant strabismus, 202
- Mustard gas poisoning, keratitis due to, 205
- Myasthenia gravis, electromyogram in, 830
- Mycosis fungoides, 687
- MYOPIA:** diseases in pregnancy and, 361
- high, in premature twin, 1258
- occupational prognosis in, 198
- transient, during hypertension treatment, 827
- Myositis, sclerotenitis and, 527
- Myotonic dystrophy of Steinert, 351
- Myxedema, in endocrine dysfunction, 26

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

N

- Nasopharyngeal tumor, epiphora as initial sign of, **644**
- Nephritis, due to dacryocystitis, 1282
- Nephropathy, in diabetes mellitus, 680
- Nerves, ciliary, anatomy of, 820
 - of human choroid, 820
 - paralysis, of third cranial, 683
- Nervous system, dysfunction autonomic, 1280
- Neurilemmoma, of eyelid, 355
- Neurinoma, of orbit, 353
- Neurofibroma, of eyelid, 354
- Neurofibromatosis, 683
- Neuro-ophthalmology, diagnosis in, problem cases in, **1087**
 - trigeminal ophthalmoplegia syndrome in, 683
 - visual fields in, 683
- Neuropathy, oculomotor, in diabetes, **808**
- Nevoid pigmentation, of retina, 680
- New England Ophthalmological Society, **503**, **814**
- News Items, **211**, **263**, **539**, **689**, **839**, **1289**
- Night blindness, ERG and, **875**/**205**
 - in tropics, 825
- Nutrition, Bitot spots and poor, **568**
- NYSTAGMUS: **832**
 - albinism and, 361
 - EOG in, 1260
 - miner's dissociated, 833
 - optokinetic, 201, 518
 - in cerebral disease, 684
 - torticollis and, operation for, 832

O

- Obituaries:
 - Barkan, Hans, **185**
 - Burchell, Edgar Brower, **508**
 - Ferrer, Horacio, **186**
 - Fridenberg, Percy H., **667**
 - Sato, Tutomu, **510**
- Ocular rigidity, function of, **958**/**288**
 - in endocrine exophthalmos, 1260
 - in normal eyes, 1266
- OCULAR TENSION: action meprobamates on, 207
- carbonic anhydrase inhibition and, **291**, 1266
- diurnal variation in, to evaluate glaucoma operations, **430**
 - during manometry, 525
 - effect on aqueous outflow, 821
 - fronto-orbital centers to regulate, 193
 - in acromegaly, 533
 - in endocrine exophthalmos, 1260
 - reduction of, using plastics, 733
 - scleral rigidity and, 533
 - steady-state relationships of, **950**/**280**
- Onchocerciasis, ocular, **188**
- Ophthalmodynamometry, in glaucoma, 1265
 - review of, **419**
- Ophthalmic meetings: Academy meeting, 1960, **816**
 - American Ophthalmological Society, **182**
 - International Council of Ophthalmology, **344**
 - Miami Beach, 1960, **340**
- Ophthalmic Research, **169**
- Ophthalmologist, contributions of, **815**
 - in preventing auto accidents, **815**
- Ophthalmology, beta therapy in, 199
 - electrophysiology in, 195
 - otology and, 1288
 - photocoagulation in, 199
 - progress of, **848**/**178**
- Ophthalmoplegia, dystrophic external, **815**
 - in diabetes, **808**
 - in endocrine dysfunction, 26
 - trigeminal syndrome and, 683
- Ophthalmoscope, fundus photography with, 1258
- Ophthalmoscopy, in primary glaucoma, 531
- Opilon, effect on pupil, 822
- Opsoclonus, 833
- Optic chiasm, hemianopia after injury to, 357
 - pathologic involvement and clinical problems of, **1031**
- Optic disc, black, 681

OPTIC DISC (continued)

- changes, in glaucoma, 838
- coloboma of, 681
- colobomatous pitting of, 682
- congenital anomalies of, papilledema and, **1034**
- edema of, papillitis and, 1279
- glial hyperplasia on, 1284
- in Japanese, 1279
- protrusion of, stereophotography of, 521
- OPTIC NERVE: atrophy of, after nerve section, 350
 - complicating meningitis, 1278
 - cellular infiltration of, **1197**
 - diseases of, papilledema and, **1034**
 - visual fields in, 350
 - lesions of, in Congolese, 1278
 - pigmented tumors of nervehead, 338
 - retina and: review, 680
 - sinus disease and abnormal, 210
 - spongioblastoma of, 682
 - vascular fossa on papilla of, 1279
- Optic neuritis, during lactation, 1279
 - in children, 682
 - retrobulbar: See Retrobulbar neuritis
- Optics, visual physiology and: review, 825
- ORBIT: angioreticuloma of, 686
 - carcinoma of, 1281
 - cysts of, 685
 - encephalocele in, 354
 - hemangiocytoma of, 685
 - inflammations of, sinuses and, 353
 - meningioma of, 1281
 - meningocele of, 685
 - neurinoma of, 353
 - cerebral aneurysm and, 256
 - plastic surgery of, 685
 - reaction to implantation of foreign substances, 517
- Orisul, concentration, in vitreous, 1256
- Orthoptics, clinical, 831
 - improvement of, 824
 - in decompensated phorias, 832
 - in suppression, 824
- Ortho-stimulator, to treat strabismus, 526
- Osteitis deformans, **215**
- Otriven, a vasoconstrictor, 195
 - solution of, 467
- Otosclerosis, corneal dystrophy and, 1263
- Oxidative cycle, in retina, 192
- Oxygen tension, glucose uptake of lens and, **974**/**304**

P

- Palpebra: See Eyelids
- Palpebral fissure, antimongoloid obliquity of, **487**
- Palpebral neurilemmoma, 355
- Papilla, melanoblastoma of, 682
- Papilledema, in Chédia-Higashi syndrome, **1197**
 - unilateral, 1064
- Papillitis, optic disc edema and, 1279
 - vascular pseudo-, 350
- Para-aminosalicylic acid, in conjunctival tuberculosis, **265**
- Paralysis, of eye, EOG in, 1260
- Parietotemporal lobe, lesions of, hemianopia due to, **1056**
- Pars plana, cysts of, in autopsy eyes, **424**
- Penicillin, in trachoma, 522
 - permeation of, 194
- Peptides, of lens, 193
 - of vitreous, 193
- Perfusion studies, on eyes of four species, **302**
- Perimetry, color, evaluation of, 826
 - flicker, in brain damage, 829
 - in primary glaucoma, 531
- Periphebitis, of retina, 210
- Phagocytic elements, in eye, **173**
- Phakoeresis of Barraquer, in cataract extraction, 679
- Pharmacology, toxicology and: review, **823**
- Phenothiazine, pigmentary retinopathy after, 1278
- Philadelphia, College of Physicians, Section on Ophthalmology, **338**
- Phosphate, coralox, a cholinergic organic, **115**

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Phospholine iodide, in glaucoma, **270**, 1264
 Phosphomono-esterase, of ocular tissues, 196
P³²: See Radioactive phosphorus
PHOTOCOAGULATION: 199, 826
 advances in use of, 826
 brilliancy luminous focus in, 829
 clinical results with, **590**
 in hemangioma of choroid, 3
 in retinoblastoma, **590**
 in Leber's miliary aneurysms, **590**
 in melanoma of eyeground, 687
 in retinoblastoma, **690**
 in von Hippel-Lindau disease, **590**
 iridocapsulotomy by, 526
 iridotomy by, 526
 recent experiences with, 830
PHOTOGRAPHY: of aqueous flare, 521
 of fluorescence in circulating blood, **176**
 of fundus, 827
 improvised, 1259
 with ophthalmoscope, 1258
 of lens opacities, 1270
 of motility problems, 832
 stereo-, of optic disc protrusion, 521
 See also: Stereophotography
 to measure angle of squint, 203
 Photophobia, in Chédiak-Higashi syndrome, **1197**
 Photostimulator, 149
 Phylogenesis, amblyopia and, 198
 Pierre Robin syndrome, 688
 Piezometry, in exophthalmos, 353
 Pigment epithelium, role in ocular pathology, **1066**
 Pilocarpine, in aqueous, polarography to determine, 1256
 Plasma: See under Blood
PLASTIC SURGERY: composite grafts in, 829
 matching facial color in, 522
 mucosal transplantation, in caustic burns, 357
 of eyebrows, 687
 of eyelids, **353**, **384**
 of orbit, 685
 of socket, 353
 subcutaneous dermis graft in, 830
 Pleoptics, in amblyopia with eccentric fixation, 521
 in suppression, 824
 synoptophore modification for, **156**
 Pneumography, cerebral, in opticochiasmic arachnoiditis, 201
 Pneumo-sinus dilatans, 1282
 Poikiloderma, megalocornea and, 1288
 Polarography, to determine pilocarpine in aqueous, 1256
 Polyethylene, cutter for, 828
 Porphyria, scleromalacia in, 205
 Posner-Schlossman syndrome, 530
 Prednisolone, in aqueous, 822
 in diabetic retinopathy, 1275
 Pregnancy, color sense in, 188
 myopia, diseases during and, 361
 Proctor, Francis L., XIV Lecture, **543**
 Proctor Medal, acceptance of, **847**/**177**
 Lecture, **848**/**178**
 presentation of, **843**/**173**
 Prosthesis, scleral, after enucleation, 1259
 Protein, metabolism in eye, 518
 of aqueous, in diabetics, 530
 of corneal epithelium, 195
 of vitreous, residual, **228**
 water-soluble, of cornea, 520
 Pseudo-exfoliation, of lens, glaucoma and, 208
 Pseudomonas infection, colistin in, **33**
 of cornea, 673, 674
 Pterygium, incidence, heredity, etiology, **635**
 surgery for, Gelfilm in, **729**
 Ptosis, treatment of, 355
 Pulseless disease, 1286
 Pupil, Adie syndrome: See Adie syndrome
 effect Opilon on, 822
 motility of, in dystrophia myotonica, 205
 size, in bromide intoxication, 478
 Pupillography, 522
 Quadrantopia, in pitting of optic disc, 682
 Quinine, intoxication, 192
R
 Radiation, beta, effect on anterior chamber angle, **469**
 focal ionizing, of posterior segment, **1215**
 interstitial substance of retina changed by, 1278
 ionizing, of lens, **175**
 therapy, in hemangioma of choroid, 3
 radium needles to treat eyelid carcinoma, 686
 Radioactive, phosphorus (**P³²**), to localize choroid melanoma, 674
 sulfate, to study primate ciliary body, **407**
 S³⁵ sulfate uptake in eye, 822
 Radiosensitivity, of retinoblastoma, 686
 Reading, retardation: See Dyslexia
 Recklinghausen disease, 683
 Reconstructive surgery: See Plastic surgery
 Refraction, before and after cataract surgery, 1269
 errors of, in school children, 139
 Rheumatism, uveitis and, 206
 Ristocetin, **614**
RETINA: artery of, occlusion of, 537
 glaucoma secondary to, 533
 retinal detachment and, 1272
 origin and course of central, 516
 pressure changes in, induced by carotid compression, **259**
 study of central, 1277
 blood vessels of, technique to study thrombosis of, 680
 glaucoma after, 208
 triple branching of, 516
 capillaries of, microaneurysms of, 680
 circulation, PH-203 and ACTH to treat diseases of, 829
 cycloplean, 825
 degeneration of, equatorial, 1274
 ERG in pigmentary, 680
 experimental, 519
 hereditary, 1288
DETACHMENT: after carotid-cavernous fistula, 537
 after cataract surgery, **716**
 developmental processes and, 1272
 galvanocautery in, 679
 glaucoma, sclerotenonitis and, 527
 histologic findings after operation for, 1276
 human vitreous in, **108**
 in aphakics, prophylaxis of, 1276
 in collie dogs, with scleral ectasia, **451**
 occlusion retinal artery and, 1272
 photocoagulation in, **590**
 scleral buckling in, 209
 surgery for, **1247**, 1273
 history of, 362
 present status of, **441**
 silver ball in, 538
 developing, metabolism of, 1274
 vaso-obliteration in, 194
 effect alpha chymotrypsin on, 518
 effect hallucinogens on, **172**
 electric potentials of, recording of, 524
 elevation of, scleritis and, 527
 folds in, congenital, 1276
 granulomatosis of, larval, 536
 histology of, ERG and, 1273
 in batrachians, 820
 in reptiles, 820
 interstitial substance of, radiation changes in, 1278
 lesions of, in kala-azar, **161**
 metabolism of developing, 1274
 nevoid pigmentation of, 680
 optic nerve and: review, 192
 oxidative cycle in, 192
 periphlebitis of, 210
 pigment epithelium of, hyperplasia of, **1066**
 tumor of, 682
 sheen, significance of, 827

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- RETINA** (*continued*)
 spontaneous vascular repair of, **691**
 subretinal fluid, electrophoresis of, 176
 surgery of, ERG in, 1275
 tears, in autopsy eyes, 424
 vascular diseases of, percutaneous renal biopsy in, **691**
 spontaneous repair in, **691**
 vascular proliferation of, 537
 vein, occlusion, 1277
 ERG in, 1278
 X-ray therapy in, 210
 pressure, influence ocular and cerebrospinal fluid on, 1257
 thrombosis, X-ray therapy in, 525
 X-rays, and functional arrangement of, 824
Retinitis, exudative, 1277
 pigmentosa, anaerobic glycolysis in rats with, 196
 X-ray therapy in, 681
 proliferative, 171
Retinoblastoma, diagnosis as granulomatous uveitis, 538
 diffuse infiltrating, 538
 photoocoagulation in, **390**
 radiosensitivity of, 686
 treated according to Reese, 1273
Retinography, to study fundus changes, 314
Retinopathy: diabetic, See Diabetic retinopathy
 hypertensive, 209
 in diabetes mellitus, 680
 pigmentary, after phenothiazine, 1278
 toxic, in arsenic treatment, 64
Retinoschisis, pathologic confirmation of, 679
Retrobulbar neuritis, diagnosis of, **1087**
Retrolental fibroplasia, bibliography on, **511**
Rheometry, volumetric, to measure aqueous outflow, 1256
Rieger's disease, 1288
Rubella, embryopathy of, 361
Rubeosis iridis, 529
 glaucoma and, 1264
 hydrodynamic changes in, 530
Russia, ophthalmic trip in, 110
- S**
- Sarcoidosis**, keratoconjunctivitis sicca in, 836
 uveitis and, 1170
Sato, Tutomu, **510**
Schlemm's canal, **543**
 changes in, primary glaucoma, **37**
 technique for opening, 1259
SCLEERA: congenital posterior ectasia of, in collie dogs, **451**
 ectasia of, in collie dogs, **451**
 electric resistance of, 528
 perforation of, during strabismus surgery, **807**
 structure of, age changes and, 837
Scleral buckling, granuloma complicating, 829
 See also under Retina, detachment
Scleral prosthesis, after enucleation, 1259
Scleral rigidity coefficient of, in glaucoma, 531
 in normal eyes, 531
 new method to determine, 676
 ocular tension and, 533
 See also Ocular rigidity
Scleritis, retinal elevation and, 527
Scleromalacia, in porphyria, 205
Sclerotenitis, 527
Scotoma, in optic chiasm lesions, **1031**
Scurvy, collagen defect in, 822
Senile, lesions of macula, 209
Sickle-cell disease, 359
 elastic tissue degeneration in, 213
Siegrist streaks, Groenblad-Strandberg syndrome and, 1277
Sinuses, disease of, optic nerve and, 210
 eye and, 206
 in uveitis, 206
 orbital inflammation and, 353
Sjögren's syndrome, 1286
 therapy in, 831
 skull, fracture of, 687
 Smallpox, keratitis due to, 836
Society Proceedings, **337**, **502**, **661**, **812**
Socket, plastic surgery of, 353
Sodium glutamate, ERG fractionation by, **900/230**
Soframycin, in corneal infections, 527
Solutions, ophthalmic, Otrivin, **467**
Space, egocentric localization of objects in, 197
Spectacles, anterior chamber lens: See Intraocular lenses
 contact lens: See Contact lenses
 occlusion, for visual testing children, 521
Spherophakia, **333**
Spiramycin, **614**
Spongioblastomas, of optic nerve, 682
Squint, angle of, 1261
 See **Strabismus**
Staph. aureus, bacteriophage typing of, 821
Status dysraphicus, retinal degeneration and, 1288
Steinert, myotonic dystrophy of, 351
Stereophotography, color, of anterior chamber angle, 1258
 of optic disc protrusion, 521
Steroids, lenses rats treated with, **1147**
 therapy, 1260
Stevens-Johnson syndrome, 359, 1261
STRABISMUS: A and V syndrome, values for, **753**
 amblyopia and, inhibition eye with, 520
 motor difficulties in, 1260
 without, sensory motor co-ordination in, 684
 angle of, 1261
 photography to measure, 203
 concomitant, amblyopia in, 202
 electronystagmography in, 203
 infant behavior and, 202
 muscle transplantation in, 202
 occlusion in, 833
 ethmoidism and, 360
 fixation targets to examine, 523
 in infants, 834
 in twins, 831
 inhibition in, 832
 management of, **757**
 monocular fixation in, 520
 orthoptics in: See Orthoptics
 ortho-stimulator to treat, 526
 paralytic sixth nerve and, 527
 review of, 831
 small-angle, depth perception in, 202
SURGERY: anomalous correspondence and early, 202
 results in, 833
 retinal perforation during, **1167**
 scleral perforation during, **807**
 symposium on, **503**
 thyroid disease and, 473
 V-syndrome, divergence and convergence excess in, **765**
Streptomycin, in conjunctival tuberculosis, **285**
Sturge-Weber syndrome, **338**
Succinylcholine, expulsive hemorrhage due to, 1270
Sulfonamides, hypoglycemic, in diabetes, 209
 in postoperative intraocular infections, 1225
SURGERY: acute glaucoma after, 1264
 arterial, 828
 aseptic, advances in, 825
 for exotropia, fusion and, **1158**
 for retinal detachment, **1247**
 in strabismus, retinal perforation during, **1167**
 scleral perforation during, **807**
 millipore filters in, 159
 of blepharophimosis, 686
 of divergence excess, **297**
 of Schlemm's canal, 1259
 pigment epithelium in, **1066**
 plastic: See Plastic surgery
 potentiated premedication in, 199
 reconstructive: See Plastic surgery
 trifluopromazine in, 523
Swiss Ophthalmological Society, **812**
Sympatol, in chemical burns, 823
SYNDROMES: A and V, muscle transplantation in, 832
 values for, **753**

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

SYNDROMES (continued)

- Adie, 352
- Chediak-Higashi, **1197**
- Foster-Kennedy, 351
- Groenblad-Stranberg, **213**, 1277
- Marfan, 360
 - secondary glaucoma in, 533, **1187**
 - Williams' prior description of, 154
- Moebius, 361
- Pierre Robin, 688
- Posner-Schlossman, 530
- Sjögren, 831, 1286
- Steinert, 351
- Stevens-Johnson, 359, 1261
- Sturge-Weber, **338**
- tendon sheath, 673
- Terson, 351
- trigeminal ophthalmoplegia, 683
- V, divergence and convergence excess in, 765
- vascular, eye movements in, 352
- Weill-Marchesani, 360
 - with congenital cataract, 1268

T

- T illusion, **336**
- Tarsorrhaphy, **387**
- Tattooing, of cornea, 830
 - new pigment for, 325
- Tear gas, eye injuries due to, 357
- Tears, agar micro-electrophoresis of, **793**
- Tendon sheath syndrome, 673
- Terson syndrome, 351
- Therapy, steroid, 1260
- Thrombocytopathy, hemophthalmos in, 358
- Thyroid disease, strabismus associated with, 473
- Thyrototoxicosis, **26**, **783**
- Tissues, cholinesterase activity in eye, 115
 - inoculation Trichomonas vaginalis into, 517
 - phosphomono-esterase of, 196
 - study of corneal epithelium, **276**
- Tobacco amblyopia, evolution and natural history of, 71
- TONOGRAPHY:** 677
 - experimental, 170
 - in glaucoma, 532
 - to evaluate glaucoma operation, 430
- Tonometers, calibration of, 676
 - electronic, 199
- TONOMETRY:** applanation, fluorescein in, **668**
 - globe deformity during, 207
 - impression, eye volume variation and, 533
 - in glaucoma, 532
- Torticollis, nystagmic, operation for, 832
- Toxicology, pharmacology and: review, 823
- Toxocara, retinal granulomatosis due to, 536
- Toxoplasma, antibodies, detection of, **945**/**275**
 - uveitis due to, 674
- Toxoplasmosis, 1281
 - antibody production in, 820
 - corticosteroids in experimental, **919**/**249**
 - uveitis and, 1170
- Trabecular meshwork, aqueous degenerative effect on, 365
 - biopsy of, in primary glaucoma, 37
 - changes in, in primary glaucoma, 37
 - in health and disease, 543
- Trabeculotomy ab externo, **1187**
- TRACHOMA:** distribution of, 362
 - experimental, 517
 - produced by virus propagated in yolk sac, **907**/**237**
 - in Afghanistan, 204
 - in Australia, 1259, 1262
 - in Iraq, 204
 - penicillin in, 522
 - prevention of, 506
 - treatment of, 828
- Trephination, follow-up 164 eyes after, 206
 - scleral, iridencleisis and, 1265
- Trichomonas vaginalis, inoculation into eye tissues, 517
- Triclobisonium chloride, in external eye infections, **595**

- Trifluorpromazine, in ocular surgery, 523
- Tropics, night blindness in, 825
- Trypsin, alpha chymotrypsin and, in cataract surgery, 1267

- Tuberculosis, meningitis of, optic nerve atrophy in, 1278
 - of conjunctiva, 265
- TUMORS:** brain, fundus findings in, 352
 - cerebral, headache and, 351
 - diagnosis of, ultrasonography in, 826
 - focal ionizing radiation to treat, **1215**
 - glial hyperplasia disc due to, 1284
 - in Yemen, 353
 - involving optic chiasm, 1031
 - nasopharyngeal, epiphora as sign of, **644**
 - ocular, in children, 1284
 - of caruncle, 1284
 - of choroid, **3**, **330**, 356, 674, 1285
 - of conjunctiva, 147
 - of eyeground, photoagulation in, 687
 - of eyelid, 354, 355, 686, 1284
 - radium in carcinoma, 686
 - of face, 1285
 - of glands of Moll, 1284
 - of lacrimal gland, 356
 - of lacrimal sac, 1283
 - of limbus, 1285
 - of optic nerve, 682
 - of optic nervehead, **338**
 - of orbit, 353, 685, 686, 1281
 - cerebral aneurysm and, 356
 - exophthalmos and, 1282
 - of retinal pigment epithelium, 682
 - of skin, 1284
 - of uvea, 530
 - suprasellar, differential diagnosis in, 352
 - Twins, high myopia in premature, 1258
 - strabismus in, 831

U

- Ulcer, dendritic, alpha chymotrypsin in, **496**
- Ultrasound, echogram in: See Echogram in diagnosis of tumors, 826
- Urea, C^{14} -labeled, intraocular transport of, **1130**
 - intravenous, **818**
 - in angle-closure glaucoma, 379
 - Uvea, melanoma of, 530
- UVEITIS: complications of, 247
 - due to Endamoeba histolytica, **496**, **662**
 - due to Toxoplasma, 674
 - effect cyproheptadine on, **465**
 - endogenous, in adults, 179
 - etiology of, modern concepts of, 1170
 - focal infections in, 837
 - intestinal protozoa and, 179
 - latex agglutination test in, 837
 - Middlebrook-Dubos test in, 828
 - modern therapy of, 236
 - personality inventory in, 180
 - retinoblastoma diagnosed as granulomatous, 538
 - rheumatic etiology of, 206
 - rheumatoid arthritis in, 837
 - sinuses and, 206
 - spondylarthritis ankylopoietica in, 837
 - therapy of, 661
 - management of side-effects in, 246
 - modern, 236
- Uveomenigitis, arachnoiditis and, 351
- Uveopapillitis, 530

V

- Vascular, changes, in macroglobulinemia, 1274
 - diseases, papilledema and, **1084**
 - lesions, of visual cortex, 1280
 - proliferation, in toxic retinopathy, **64**
 - pseudopapillitis, 350
- Vasculat, to treat eye burns, 200
- Vasoconstrictor, Otriven as, 195

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

VISUAL: acuity, in treated amblyopia, 824
 cortex, vascular lesions of, brain herniation and, 1280
 disturbances, after antimalarial drugs, 204
 efficiency, eye movements and, 673
 failure, in lesions of optic chiasm, 1031
 FIELDS: after lobectomy for epilepsy, 1281
 defects, in lesions parietotemporal lobe, **1056**
 bitemporal, 1031
 in brain damage, 829
 in glaucoma, 838
 in intracranial processes, 683
 in lesions of optic chiasm, 1031
 in optic nerve disease, 350
 tubular, surgical results in, 676
 perception, the T illusion, 336
 physiology, optics and, 825
 space, in Cezanne's paintings, 197
 tests, of school children, occlusion spectacle for, 521
 Visuomotor reactions, in hemiplegics, **627**
 Visuosoitory reactions, in hemiplegics, **627**
 Vitamin A, effect on intraocular dynamics, **309**
 deficiency, Bitot spots and, **568**
 effect on central nervous system, 171
 intoxication, **165**
 Vitiligo, corneal dystrophy and, 1263
 Vitreoretinal degeneration, **813**
VITREOUS: amino acids of, 193
 anterior, complications cataract extraction due to, 1270
 antibacterial effect of, 517
 carbohydrates in, 517
 collection, storage and selection of human, **108**
 composition of, 519
 congenital veil of, 537
 deturgescence of, before cataract surgery, 1271
 framework of, 194
 hemorrhage, hemianopia and, 1280
 in arsenic retinopathy, **64**
 subarachnoid hemorrhage and, 351
 lens and; review, 534
 loss of, **786**
 nucleus retained in, **814**
 Orisul concentration in, 1256
 peptides of, 193

VITREOUS (*continued*)
 persistent hyperplastic, 681
 preservation by lyophilization, 538
 residual proteins of, **228**
 Vogt, white limbus girdle of, **101**, 203

W

Water, of lens, 193
 Wedl, Carl, histopathologist in 19th century, 688
 Wegener's granulomatosis, **1263**
 perilimbal ulceration in, 835
 Weill-Marchesani syndrome, 360
 Wiegert, ligament of, effect drugs on, 170
 Women, and medicine, 362
 Workmen's compensation: See Disability compensation

X

Xerosis, distribution of, 835
 X-rays, functional arrangement of retina and, 824
 therapy, in retinal vein occlusion, 210
 in retinitis pigmentosa, 681
 in venous retinal thrombosis, 525

Y

Yale Clinical Conferences, **337**, **502**, **661**
 Yemen, eye and orbital tumors in, 353
 You and Your Eyes, unmasking a deception, 345
 Yxin, a vasoconstrictor drug, 834

Z

Zonule, effect alpha chymotrypsin on, 193
 effect drugs on, 170
 stripping of, 1270
ZONULOLYSIS: 1270
 enzymatic, 534, 1268
 inhibition of, 1256
 late sequelae of, 1268
 in cataract extraction with, 1271
 operative complications of, 535
 postoperative complications after, 535
 Zonulytic ferments, action of, 1255

COLOR ILLUSTRATIONS

VOLUME 50

JULY-DECEMBER, 1960

HEMANGIOMA OF THE CHOROID. Angus L. MacLean and A. Edward Maumenee	<i>facing page</i>	3
COLISTIN IN PSEUDOMONAS INFECTION: REPORT OF A SUCCESSFULLY TREATED CASE. Dan M. Gordon and John M. McLean	<i>facing page</i>	34
HISTOCHEMICAL STUDIES OF THE PRIMATE CILIARY BODY. Tsuyoshi Yamashita, Bernard Becker and Paul Cibis	<i>facing page</i>	408
THE LIMBAL AREA: WITH PARTICULAR REFERENCE TO THE TRABECULAR MESHWORK IN HEALTH AND DISEASE: THE XIV FRANCIS I. PROCTOR LECTURE. Georgiana Dvorak Theobald	<i>facing page</i>	543
BITOT SPOTS. David Paton and Donald S. McLaren	<i>facing page</i>	568

INDEX

Authors and Titles of

Original Articles and Notes, Cases, Instruments

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

A

- AIZAWA, Futaba: See GALIN, Miles A.
ALMEDA, Ernesto M.: See DOCTOR, Daniel W.
ALPERN, Mathew, FALLS, Harold F., and LEE, Gilbert B.: The enigma of typical total monochromacy, **996/326**
AMMERMANN, Ernst O.: See PRICKMAN, Louis E.
ANHALT, Edward F., ZAVELL, Saul, CHANG, Gilbert, and BYRON, Herve M.: Conjunctival tuberculosis, **265**
APT, Leonard: See LEOPOLD, Irving H.
ARMSTRONG, John R., DAILY, Ray K., DOBSON, Harold L., and GIRARD, Louis J.: The incidence of glaucoma in diabetes mellitus: A comparison with the incidence of glaucoma in the general population, **35**
ARRUGA, Alfredo, and DOWNEY, Rachael: Simple modification of synoptophore: Useful in pecto-orthoptic treatment, **156**
ASCHER, Karl W.: Some details of the technique of cyclodialysis, **1207**
ATKINSON, Walter S.: A practice method: For the Wheeler discussion and iridotomy, **494**
AUERBACH, T. P.: See MANSKI, W.

B

- BAQUEIRO, Adolfo, and HEIN, Paul A., Jr.: Familial congenital leukoma, **810**
BARAS, Irving: See McLEAN, John M.
BARTLETT, Robert E.: Cross-action needle holder, **166**
BAYARD, Walter L.: A modified keratome, **168**
BEAN, William: See HOLLAND, Monte G.
BECHTEL, Edward J.: See JUNGSCAFFER, Otto H.
BECKER, Bernard: The transport of organic anions by the rabbit eye: I. In vitro iodopyracet (Diiodast) accumulation by ciliary body-iris preparations, **862/192**. See also FORBES, Max; YAMASHITA, Tsuyoshi
BECKER, Bernard, KOLKER, Allan E., and ROTH, F. Dale: Glaucoma family study, **557**
BEHRENDT, Thomas: A retinographic survey of fundus changes: The arteriovenous crossing phenomena, **314**
BERENS, Conrad, and Breakey, Arnold S.: Iridocorneosclerectomy for glaucoma, **45**
BERENS, Conrad, and SHEPPARD, L. Benjamin: Clinical and experimental consideration of cycloelectrolysis and cycloidiotomy, **599**
BERQUO, Elza: See CARVALHO, Celso A. de
BIRCH, Carroll L.: See HARRIS, Dennis
BIRGE, Henry L.: Impending cerebrovascular lesions: Ophthalmic diagnosis and management, **395**
BOOK, Noel A.: See NEWELL, Frank W.
BOWERS, Dorrance: Williams' prior description of Marfan's syndrome, **154**
BRALEY, Alton E.: See SCHULTZ, Richard O.
BREAKEY, Arnold S.: See BERENS, Conrad
BROGGI, Richard J.: New dual-end instrument: For basal peripheral iridectomy on the dilated pupil, **325**
BRUCE, Gordon M.: Helmholtz the musician, **1097**
BULNES, Luis Sánchez, GUTIÉRREZ, Sergio Díez, and HINTZ, Andrés Flores: The present status of surgery for retinal detachment: A new operative technique, **441**
BURDA, Christopher D., and FISHER, Earl, Jr.: Corneal destruction by extracts of Cephalosporium mycelium, **926/256**
BURIAN, Hermann H.: A case of Marfan's syndrome with bilateral glaucoma: With description of a new type of operation for developmental glaucoma (trabeculotomy ab externo), **1187**
BUSACCA, Archimede: Gonioscopic observations after iridencleisis, **439**
BYRON, Herve M.: See ANHALT, Edward F.

C

- CALDEIRA, Jorge Alberto F.: See CARVALHO, Celso A. de
CALHOUN, F. Phinizy, Jr., and HAGLER, William S.: Experience with the José Barraquer method of extracting a dislocated lens, **701**
CARAVAGGIO, Leo L.: See von SALLMANN, Ludwig
CARVALHO, Celso A. de, CALDEIRA, Jorge Alberto F., BERQUO, Elza, and MELARAGNO, Roberto Filho: Changes of central retinal artery pressure: Induced by common carotid artery compression, **239**
CHANG, Gilbert: See ANHALT, Edward F.
CHI, H. H.: See TENG, C. C.
CHOI, Ok: See NEWELL, Frank W.
CIBIS, Paul: See YAMASHITA, Tsuyoshi
COGAN, David G.: Hemianopia and associated symptoms due to parietotemporal lobe lesions, **1056**
COHAN, Bruce E.: Epiphora: As the initial manifestation of a malignant nasopharyngeal tumor, **644**
COLLINS, Eleanor M.: See von SALLMANN, Ludwig
COLYEA, B. H., Jr.: See PISCHEL, D. K.
CONSTANT, Marguerite A.: See MILLER, James E.
COOPERSTEIN, S. J.: See FARKAS, T. G.
CORDES, Frederick C.: Retinal detachment following congenital cataract surgery: A study of 112 enucleated eyes, **716**; Galactosemia cataract: A review: Report of a case, **1151**

D

- DAILY, Ray K.: See ARMSTRONG, John R.
DAWSON, C.: See THYGESON, P.
DAY, Robert M., and NELSON, Robert: Exophthalmos-inhibiting factor in normal human serum, **1193**
DAYAL, Y., and MEHRA, K. S.: Spherophakia, **333**
DEVILLE, William B.: See MELTON, Carlton E.
DEVOE, Arthur Gerard: Observations on reconstructive and therapeutic corneal grafting, **1124**
DI FIORE, John A.: Diabetic oculomotor neuropathy: Report of a case, **808**
DOBSON, Harold L.: See ARMSTRONG, John R.
DOCTOR, Daniel W., and ALMEDA, Ernesto M.: The effects of beta radiation on the angle of the anterior chamber of the rabbit eye, **469**
DONAHUE, Hugh C.: Head pain: Report of an interesting case, **654**
DOWLING, John E.: Night blindness, dark adaptation, and the ERG, **875/205**
DOWNEY, Rachael: See ARRUGA, Alfredo
DRANCE, S. M.: Phospholine Iodide (217MI) and demecarium bromide (BC-48) in the management of glaucoma, **270**
DREWS, Robert C.: Use of millipore filters in ophthalmic surgery, **159**
DUKE-ELDER, Stewart: Comments on acceptance of the Proctor Medal, **847/177**; *Gaudemeius igitur dum iuvenes sumus*, **848/178**
DUNNINGTON, John H.: Francis Heed Adler, M.D., salutations, **1026**
DUNPHY, Edwin B.: Unilateral papilledema, **1084**
DYER, John A., and MARTEENS, Theodore G.: Surgical treatment of divergence excess, **297**
DYER, John A., and OGLE, Kenneth N.: Correction of unilateral aphakia with contact lenses: Report of seven cases, **II**

E

- EDWARDS, G. Keith, and LOCKE, John C.: The collection, storage and selection of human vitreous: For use in retinal detachment surgery, **106**

AUTHORS INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

ELLIS, Richard A.: Reduction of intraocular pressure using plastics in surgery, 733

F

- FAJARDO, Romeo V.: See KRISHNA, Narendra
 FALLS, Harold F.: See ALPERN, Mathew
 FARKAS, T. G., IVORY, R. F., COOPERSTEIN, S. J., and PATTERSON, J. W.: The effect of plasma on glucose uptake of isolated rat lenses, 391/321
 FERNANDEZ, Antonio: See GOMEZ RUIZ, Othon R.
 FINLEY, John K., and WEAVER, Harry S., Jr.: The use of heparin in the treatment of diabetic retinopathy: A preliminary report, 483
 FISHER, Earl, Jr.: See BURDA, Christopher D.
 FORBES, Max, and BECKER, Bernard: The transport of organic anions by the rabbit eye: II. In vivo transport of iodopyracet (Diodrast), 867/197
 FORBES, Sherman B.: New pigment for corneal tattooing, 325
 FOX, Sidney A.: Basic techniques of lid surgery: Their origins and their apocrypha, 384
 FRANCOIS, J., and RABAAY, M.: Agar micro-electrophoresis of human tears, 793
 FRANCOIS, J., and VERRIEST, G.: A universal photo-stimulator, 149
 FREEMAN, Hal M.: See KRONFELD, Peter C.
 FROMER, Gerhard Hermann: An unusual case of hemianopia: From cerebral anoxia at high altitudes, 658
 FUJINAGA, Yutaka: See KANDORI, Fumio
 FURGUELE, F. P., SERY, T. W., and LEOPOLD, Irving H.: Newer antibiotics: Their intraocular penetration, 614

G

- GALIN, Miles A.: See McLEAN, John M.
 GALIN, Miles A., AIZAWA, Futaba, and McLEAN, John M.: Intravenous urea in the treatment of acute angle-closure glaucoma, 379
 GAMBARCORTA, H.: See STERN, R. U.
 GASS, J. Donald: See WALSH, Frank B.
 GEERAETS, Walter J., and GUERRY, DuPont, III: Elastic tissue degeneration in sickle-cell disease, 213
 GESTRING, Gideon F.: See JACOBSON, Jerry H.
 GIRARD, Louis J.: See ARMSTRONG, John R.
 GLASER, Benjamin: Prophylaxis in traumatic hyphema, 747
 GOLDBERG, Herman Krieger, MARSHALL, Curtis, and SIMS, Edith: The role of brain damage in congenital dyslexia, 586
 GOMEZ RUIZ, Othon R., and FERNANDEZ, Antonio: Hypnosis as an anesthetic in ophthalmology, 163
 GORDON, Dan M.: Modern therapy of uveitis, 236
 GORDON, Dan M., and McLEAN, John M.: Colistin in Pseudomonas infection: Report of a successfully treated case, 33
 GORIN, George: Action of di-isopropyl-fluorophosphate on cycloidal clefts, 789
 GROVER, A. D.: See RODGER, F. C.
 GUERRY, DuPont, III: Recession forceps, 167; Present status of the anterior chamber lens, 250. See also GEERAETS, Walter J.
 GUREVITCH, J.: See NELKEN, E.
 GUTIERREZ, Sergio Diaz: See BULNES, Luis Sánchez

H

- HAAG, H. B.: See SILVETTE, H.
 HAGLER, William S.: See CALHOUN, F. Phinizy, Jr.
 HAHN, Kurt: See TASSMAN, William S.
 HALBERT, S. P.: See MANSKI, W.
 HALLETT, Joseph: See LIPSIUS, Edward I.; WOLKOWICZ, Michael I.
 HAMILTON, Henry E.: See SCHULTZ, Richard O.
 HANNA, L.: See THYGESEN, Phillips
 HARNWELL, Gaylord P.: Francis Heed Adler, M.D., 1025
 HARPER, Paul V.: See NEWELL, Frank W.
 HARRIS, Dennis, and BIRCH, Carroll L.: Bilateral uveitis: Associated with gastro-intestinal Endamoeba histolytica infection: A case report, 496

HARRIS, Gordon, and McCULLOCH, Clement: Neutralization of the action of di-isopropyl-fluorophosphate by an oxime (monoisonitrosoacetone), 414

HARRIS, John E.: See LEWIS, Richard P.
 HARRISON, Raymond: Bilateral lens opacities: Associated with use of di-isopropyl-fluorophosphate eyedrops, 153

HAVENER, William H., and KIMBALL, O. Paul: Scleral perforation during strabismus surgery, 807

HEIN, Paul A., Jr.: See BAQUEIRO, Adolfo

HENDERSON, John Woodworth: Problem cases in neuro-ophthalmologic diagnosis, 1087

HILDING, A. C.: Comparative behavior of respiratory, conjunctival and corneal epithelium: In the anterior chamber in cats and dogs, 276

HILGERS, J. H. Ch.: Ptterygium: Its incidence, heredity and etiology, 635

HILL, Howard F.: Normal vitreous loss, 786
 HINTZ, Andrés Flores: See BULNES, Luis Sánchez

HIRSCHENFANG, Samuel: See KARLIN, David B.
 HOGAN, Michael J.: See SPENCER, William H.

HOLLAND, Monte G., MADISON, James, and BEAN, William: The ocular rigidity function, 958/288

HOLLENHORST, Robert W.: See PRICKMAN, Louis E.

HOLMBERG, Ake: See KAYES, Jack

HOWLAND, Alvin W.: See LIPSIUS, Edward I.

HUGHES, Wendell L.: Chymotrypsin in dendritic ulcer, 496

HUGHES, William F.: The treatment of corneal dystrophies by keratoplasty, 1100

HURWITZ, Paul: Ophthalmic Otrivin solution, 467

I

- ICHIKAWA, H.: See MAJIMA, A.
 INSABELLA, J.: See STERN, R. U.
 IVORY, R. F.: See FARKAS, T. G.

J

JACOBSON, Jerry H., NAJAC, Harold T., STEPHENS, George, KARA, Gerald B., and GESTRING, Gideon F.: The role of the macula in the ERG of monkey and man, 889/219

JAWETZ, E.: See THYGESEN, Phillips
 JUNGSCHAFFER, Otto H., and BECHTEL, Edward J.: Biomicroscopy of the fundus: With a corneal contact lens, 805

K

KADIN, Maurice: Studies on the effect of coranol, a cholinergic organic phosphate, on the eye, 115; Systemic effects of Co-Ral and coranol, 622; Clinical investigation of coranol for the treatment of glaucoma, 797

KANDORI, Fumio, and FUJINAGA, Yutaka: Clinical application of gonioscopic findings to evaluation of glaucoma operations, 631
 KANDORI, Fumio, and KUROSE, Yoshitoshi: Clinical application of tonography and diurnal variation in ocular tension to evaluation of glaucoma operations, 430

KARA, Gerald B.: See JACOBSON, Jerry H.
 KARLIN, David B.: Congenital entropion, epiblepharon and antimongoloid obliquity of the palpebral fissure, 487

KARLIN, David B., and HIRSCHENFANG, Samuel: A comparison of visuosensory and visuomotor disturbances in right and left hemiplegics, 627

KATZIN, H. M.: See TENG, C. C.
 KAUFMAN, Herbert E.: The effect of corticosteroids on experimental ocular toxoplasmosis, 919/249. See also MALONEY, Emily D.

KAYES, Jack, and HOLMBERG, Ake: The fine structure of Bowman's layer and the basement membrane of the corneal epithelium, 1013/343

KIMBALL, O. Paul: See HAVENER, William H.
 KINGSBURY, Cecil: See POTTS, Albert M.

KINSEY, V. Everett, REDDY, D. V. N., and SKRENTNY, Beverley A.: Intraocular transport of Cu-labeled urea and the influence of Diamox on its rate of accumulation in aqueous humors, 1130

AUTORS INDEX

Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments

- KLIEN, Bertha A.: Spontaneous vascular repair: Arterio-
lar and venous cilioretinal communications, **691**
- KODAMA, Jero: See THORNFELDT, Paul R.
- KOLKER, Allan E.: See BECKER, Bernard
- KRICHESKY, Alice R.: See SINSKEY, Robert M.
- KRISHNA, Narendra, FAJARDO, Romeo V., and LEO-
POLD, Irving H.: The effects of cyproheptadine (MK-
141, Peractin) in rabbit and human eyes, **465**
- KRONFELD, Peter C., and FREEMAN, Hal M.: The
effect of acetazolamide on the response of anterior
chamber puncture in man, **1141**
- KUROSE, Yoshitoshi: See KANDORI, Fumio
- L**
- LA MOTTE, William O., Jr.: Francis Heed Adler, M.D.,
1027
- LANGHAM, Maurice E.: Steady-state pressure flow re-
lationships in the living and dead eye of the cat,
950-280
- LARSON, P. S.: See SILVETTE, H.
- LEE, Gilbert B.: See ALPERN, Mathew
- LEOPOLD, Irving H.: See FURGUELE, F. P.; KRISH-
NA, Narendra; WOLKOWICZ, Michael I.
- LEOPOLD, Irving H., and APT, Leonard: Postoperative
intraocular infections, **1225**
- LERMAN, Sidney: Primary lymphosarcoma of the con-
junctiva, **147**
- LEVIN, Max: Eye disturbances in bromide intoxication,
478
- LEWIS, Richard P., TALMAN, Ellen L., and HARRIS,
John E.: The effect of oxygen tension on glucose up-
take by the isolated rabbit lens, **974-304**
- LIPSIUS, Edward I., HOWLAND, Alvin W., TASSMAN,
I. S., and HALLETT, Joseph: Hydrodynamic cataract
extraction, **326**
- LOCKE, John C.: See EDWARDS, G. Keith
- M**
- MACLEAN, Angus L., and MAUMENE, A. Edward:
Hemangioma of the choroid, **3**
- MADISON, James: See HOLLAND, Monte G.
- MAGEE, Alfred J.: Minimal values for the A and V
syndromes, **753**
- MAJIMA, A., NAKAJIMA, A., ICHIKAWA, H., and
WATANABE, M.: Prevalence of ocular anomalies
among school children, **139**
- MALBRAN, Enrique: Reflecting mirror: For the Schep-
ens binocular ophthalmoscope, **323**
- MALONEY, Emily D., and KAUFMAN, Herbert E.:
The rapid and convenient detection of Toxoplasma
antibodies using formaldehyde-treated human erythro-
cytes, **945-755**
- MANSKI, W., AUERBACH, T. P., and HALBERT, S.
P.: The evolutionary significance of lens organ spe-
cificity, **985-315**
- MAREN, Thomas H.: See WISTRAND, Per
- MARSHALL, Curtis: See GOLDBERG, Herman Krieger
- MARTENS, Theodore G.: See DYER, John A.
- MAUMENE, A. Edward: Congenital hereditary corneal
dystrophy, **1114**; See also: MACLEAN, Angus L.
- MCCULLOCH, Clement: See HARRIS, Gordon
- MCDONALD, P. Robb: Retinal detachment surgery, **1247**
- MC EWEN, W. K.: See SURAN, Anita A.
- MC EWEN, W. K., and SURAN, Anita A.: Further stud-
ies on vitreous residual protein: I. Composition and
solubility studies, **228**
- MCLAREN, Donald S.: See PATON, David
- MCLEAN, John M.: See GALIN, Miles A.; GORDON,
Dan M.
- MCLEAN, John M., GALIN, Miles A., and BARAS, Irv-
ing: Retinal perforation during strabismus surgery, **1167**
- MEHRA, K. S.: See DAYAL, Y.
- MELARAGNO, Roberto Filho: See CARVALHO, Celso
A. de
- MELTON, Carlton E., and DEVILLE, William B.: Per-
fusion studies on eyes of four species, **302**
- MICHAELSON, I. C.: See NELKEN, E.
- MILLER, James E., and CONSTANT, Marguerite A.:
The measurement of rabbit ciliary epithelial potentials
in vitro, **355-185**
- MORDELL, Robert W.: See POTTS, Albert M.
- MOSKOWITZ, H.: See STERN, R. U.
- N**
- NAJAC, Harold T.: See JACOBSON, Jerry H.
- NAKAJIMA, A.: See MAJIMA, A.
- NELKEN, D.: See NELKEN, E.
- NELKEN, E., MICHAELSON, I. C., NELKEN, D., and
GUREVITCH, J.: Experimental corneal allergy: Corre-
lation between clinical and serologic findings, **533**
- NELSON, Robert: See DAY, Robert M.
- NEWELL, Frank W., CHOI, Oak, BOOK, Noel A.,
HARPER, Paul V., and SIMKUS, Aldona: Focal ion-
izing radiation of the posterior ocular segment, **1215**
- O**
- O'BRIEN, David D.: See TASSMAN, William S.
- OGLE, Kenneth N.: See DYER, John A.
- OKUMOTO, M.: See THYGESEN, Phillips
- OKUN, Edward: Gross and microscopic pathology in
autopsy eyes: Part I. Introduction and long posterior
ciliary nerves, **424**; Part II. Peripheral chorioretinal
atrophy, **574**
- OTAZO, N.: See STERN, R. U.
- P**
- PATON, David, and MCLAREN, Donald S.: Bitot spots,
588
- PATTERSON, J. W.: See FARKAS, T. G.
- PISCHEL, D. K., and COLYEAR, B. H., Jr.: Clinical
results of light coagulation therapy, **590**
- POTTS, Albert M., MORDELL, Robert W., and KINGSBURY,
Cecil: Permanent fractionation of the ERG by
sodium glutamate, **900-230**
- PRICKMAN, Louis E., HOLLENHORST, Robert W.,
and AMMERMANN, Ernst O.: Toxic retinopathy:
With vascular proliferation and hemorrhage into the
vitreous in an asthmatic patient being treated with
arsenic, **64**
- R**
- RABAEGY, M.: See FRANCOIS, J.
- RADOS, W. T.: See STERN, R. U.
- REDDY, D. V. N.: See KINSEY, V. Everett
- REEDH, Merrill J.: See THORNFELDT, Paul R.
- REESE, Algernon B.: The role of pigment epithelium
in ocular pathology, **1066**
- RICHARDS, A. N.: Francis Heed Adler, M.D.: Saluta-
tions, **1026**
- RIZZUTI, A. Benedict: Lens-iris forceps: For cataract
extraction, **167**
- ROBERTS, Seymour R.: Congenital posterior ectasia of
the sclera in collie dogs, **451**
- RODGER, F. C., SAIDUZZAFAR, H., and GROVER,
A. D.: The effect of citral and vitamin A: On the
intraocular dynamics of rabbits, **309**
- ROHEN, J.: See UNGER, H.-H.
- ROPER, Kenneth L.: Alpha chymotrypsin irrigating
cannula, **500**
- ROTH, F. Dale: See BECKER, Bernard
- S**
- SAIDUZZAFAR, H.: See RODGER, F. C.
- SALLMANN, Ludwig von, CARAVAGGIO, Leo L.,
COLLINS, Eleanor M., and WEAVER, Kirk: Examina-
tion of lenses of steroid-treated rats, **1147**
- SCHEIE, Harold G.: Aspiration of congenital or soft
cataracts: A new technique, **1048**
- SCHULTZ, Richard O., BRALEY, Alson E., and
HAMILTON, Henry E.: Bioassay for an exophthalmos-
producing substance in human serum using the Atlantic
minnow, **783**
- SCHULTZ, Richard O., HAMILTON, Henry E., and
BRALEY, Alson E.: Ocular changes related to en-
docrine dysfunction: With emphasis on ocular compli-
cations in thyrotoxicosis, **26**

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- SERY, T. W.: See FURGUEULE, F. P.
- SHEPPARD, L. Benjamin: See BERENS, Conrad
- SILVERSTEIN, Arthur M., WELTER, Sylvia, and ZIMMERMAN, Lorenz E.: Studies on experimental ocular hypersensitivity to simple chemicals, **937**; **267**
- SILVETTE, H., HAAG, H. B., and LARSON, P. S.: Tobacco amblyopia: The evolution and natural history of "tobaccogenic" disease, **71**
- SIMKUS, Aldona: See NEWELL, Frank W.
- SIMMONDS, Noel T.: Behind the iron curtain, **110**; Stratified squamous iris cyst: Unsuccessfully treated by repeated electrolysis, **334**
- SIMONTON, John Thayer: Manipulation of contact glass, **148**
- SIMPSON, Derek G.: Glaucomatocyclitis crises, **163**
- SIMS, Edith: See GOLDBERG, Herman Krieger
- SUNSKY, Robert M., and KRICHESKY, Alice R.: Experimental hyphema in rabbits: II. The effect of acetazolamide (Diamox) on the rate of absorption, **743**
- SISLER, Hampson A.: A review of ophthalmodynamometry, **419**
- SKRENTNY, Beverley A.: See KINSEY, V. Everett
- SMITH, Byron, and SOLL, David B.: Malignant melanoma of the choroid: Report of a case discovered after evisceration, **330**; Strabismus associated with thyroid disease, **473**
- SOLL, David B.: See SMITH, Byron
- SPENCER, William H., and HOGAN, Michael J.: Ocular manifestations of Chédiak-Higashi syndrome: Report of a case with histopathologic examination of ocular tissues, **197**
- STEPHENS, George: See JACOBSON, Jerry H.
- STERN, R. U., RADOS, W. T., INSABELLA, J., GAMBAROTA, H., MOSKOWITZ, H., and OTAZO, N.: A controlled study of triclobisomium chloride: In external ocular infection, **595**
- SUGAR, H. Saul, and KOBERNICK, Sidney: The white limbus girdle of Vogt, **101**
- SURAN, Anita A.: See McEWEN, W. K.
- SURAN, Anita A., and McEWEN, W. K.: Further studies on vitreous residual protein: II. Enzymatic fractionation, **232**
- SWAN, Kenneth C.: Surgery for exotropia: Fusional ability and choice of procedure, **1158**
- T**
- TALMAN, Ellen L.: See LEWIS, Richard P.
- TASSMAN, I. S.: See LIPSJUS, Edward I.
- TASSMAN, William S., O'BRIEN, David D., and HAHN, Kurt: Retinal lesions in kala-azar, **161**
- TAYLOR, Daniel M.: Principles of lens delivery: With and without alpha chymotrypsin, **649**; Effective management of strabismus, **757**
- TENG, C. C., CHI, H. H., and KATZIN, H. M.: Aqueous degenerative effect and the protective role of endothelium in eye pathology, **365**
- TERRY, Walter: See THOMAS, R. P.
- THEOBALD, Georgiana Dvorak: The limbal area: With particular reference to the trabecular meshwork in health and disease: The XIV Francis I. Proctor Lecture, **543**
- THOMAS, R. P., and TERRY, Walter: An eye speculum for animal surgery, **660**
- THORNFELDT, Paul R., REEH, Merrill J., and KODAMA, Jero: Investigation of acid mucopolysaccharide in fetal chamber angles, **801**
- THYGESEN, P., DAWSON, C., HANNA, L., JAWETZ, E., and OKUMOTO, M.: Observations on experimental trachoma in monkeys produced by strains of virus propagated in yolk sac, **907**; **237**
- TURTZ, Arnold I.: See TURTZ, Charles A.
- TURTZ, Charles A., and TURTZ, Arnold I.: Vitamin-A intoxication, **185**
- TYNER, George S.: Wegener's granulomatosis: A case report, **1203**
- U**
- UNGER, H.-H., and ROHEN, J.: Biopsy of the trabecular meshwork: In 50 cases of chronic primary glaucoma, **37**
- URIST, Martin J.: Divergence excess combined with convergence excess in the V-syndrome, **765**
- V**
- VAIL, Derrick: On the presentation of the Proctor Medal of the Association for Research in Ophthalmology to Sir Stewart Duke-Elder, **843**; **173**
- VERHOEFF, F. H.: The T illusion, **336**
- VERRIEST, G.: See FRANCOIS, J.
- W**
- WALSH, Frank B., and GASS, J. Donald: Concerning the optic chiasm: Selected pathologic involvement and clinical problems: The deSchweinitz Lecture, **1031**
- WATANABE, M.: See MAJIMA, A.
- WEAVER, Harry S., Jr.: See FINLEY, John K.
- WEAVER, Kirk: See von SALLMANN, Ludwig
- WELTER, Sylvia: See SILVERSTEIN, Arthur M.
- WISTRAND, Per, and MAREN, Thomas H.: The effect of carbonic anhydrase inhibition on intraocular pressure of rabbits with different CO₂ equilibria, **291**
- WOLKOWICZ, Michael L., HALLETT, Joseph W., and LEOPOLD, Irving H.: Studies on antibody production in rabbit eyes: I. Antibody formation *in vitro* after intraocular injection of typhoid bacilli, **126**
- WOLTER, J. Reimer: Secondary cornea guttata: A late change in lenticular interstitial keratopathy, **17**
- WOODS, Alan C.: Modern concepts of the etiology of uveitis, **1170**
- Y**
- YAMASHITA, Tsuyoshi, BECKER, Bernard, and CIBIS, Paul: Histochemical studies of the primate ciliary body, **407**
- Z**
- ZAVELL, Saul: See ANHALT, Edward F.
- ZIMMERMAN, Lorenz E.: See SILVERSTEIN, Arthur M.
- ZUGSMITH, George S.: Absorbable gelatin film (Gel-film) in ophthalmic surgery, **729**

